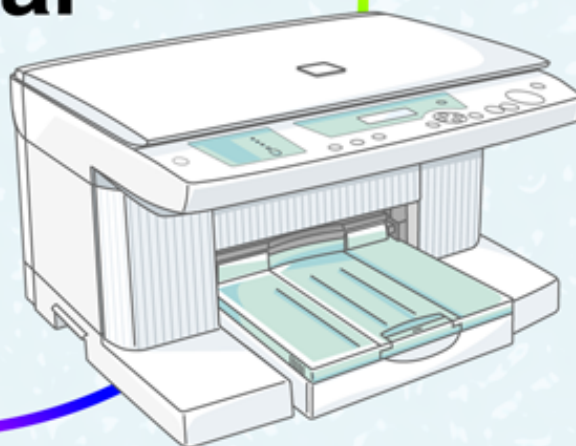


SHARP®



AJ-6010 Online Manual



Start

This Online Manual provides instruction for the operation of your new unit. It is designed to assist you in the operation of the Online Manual and provide you with all relevant information.

For more information about computers, operating systems and Acrobat Reader, please refer to the relevant manual or help file.

How to Control the Online Manual

Click this button to display the Index of the Online Manual. From the Index you can jump to various pages.

Takes you back page by page. To return to the previously viewed page from the page displayed by clicking a reference topic, click the (◀) button on the menu bar of the Acrobat Reader.



Click this button to display the Table of Contents of the Online Manual. From the Table of Contents you can jump to various pages.




Takes you forward page by page.

Following links

Links can connect parts of a document to other parts for further information. In this document, green coloured letters are linked areas.

To follow a link, select the hand tool () , a zoom tool, or a selection tool. Position the pointer over the linked area on the page until the pointer changes to a hand with a pointing finger (). Then click the link.

Using Bookmarks

This online manual has Bookmarks on the main pages of each section. You can move to the desired pages by simply clicking its bookmark. To use Bookmarks, show the bookmarks by clicking the "Bookmarks" tab of the "Show/Hide Navigation Pane" icon () , and then click the bookmark of the destination page.

How to Print Out the Online Manual

In order to print out a hard copy of the Online Manual for your reference, go to Acrobat Reader, click the "File" menu, and select "Print". After specifying the printer setting, click the "OK" button to print.



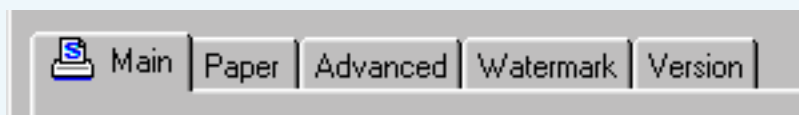
In this online manual, screen images and operating procedures are mainly for Windows 98. With other versions of Windows, some screen images may be different from those in this manual.



What is the Printer Driver?

A printer driver is a program designed to convert print data from any application into data understandable by the printer so that the printer can quickly and efficiently print out the data.

The five tabs of this printer driver are shown below.



By clicking the tabs displayed above, you will jump to a detailed description.

The items shown below can be setup on each tab.

Tab Name	Setup Items
Main	Orientation, Copies, Order, N-Up Printing, Current Settings
Paper	Paper Selection, Custom Paper, Paper Size, Fit To Paper Size, Zoom[%]
Advanced	Output Type, Print Quality, Media Type, Maintenance
Watermark	Watermark, Size, Angle, Edit Colour, Edit Fonts
Version	About

Open the printer driver setup screen (properties dialog box) by either of the methods shown below.

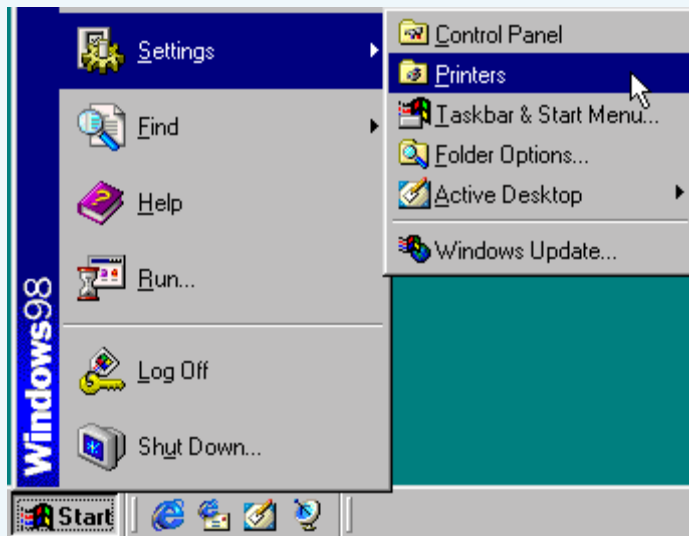
Reference: [Starting the Printer Driver through an Application](#)

Starting the Printer Driver using the "Start" Button

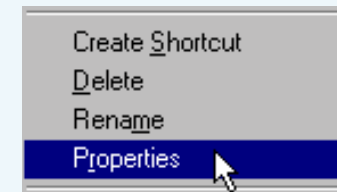
- 1 Click the "Start" button.



- 2 Select "Settings" and click "Printers".



- 3 Click the "SHARP AJ-6010" printer driver icon in the "Printers" window and from the "File" menu select "Properties".



- 4 Click the "Setup" tab.



The properties dialog box will appear.



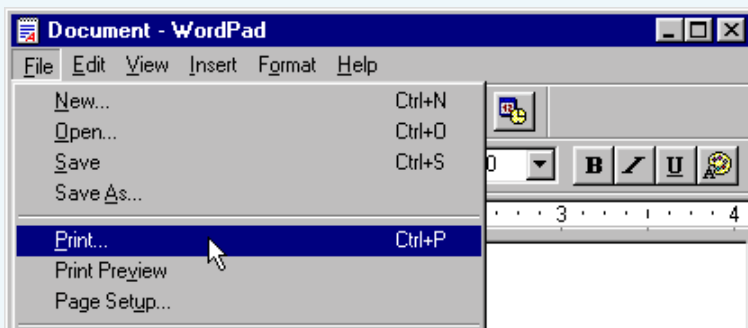
Refer to the Windows manual or help file for more information on the "General" tab, "Details" tab, "Color Management" tab and "Sharing" tab.

Starting the Printer Driver through an Application

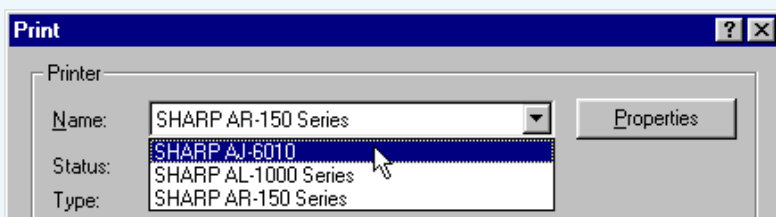
Follow the steps shown below to open the printer driver setup screen (properties dialog box) through WordPad. First, activate WordPad. (Click the "Start" button, select "Programs", select "Accessories" and then click "WordPad".)

Reference: [Starting the Printer Driver using the "Start" Button](#)

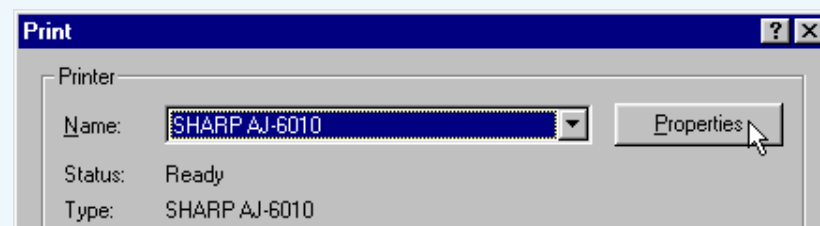
- 1 Go to "File" menu in WordPad, and select "Print".



- 2 Select "SHARP AJ-6010" from the Printer Name drop-down list.



- 3 Click the "Properties" button to open the properties dialog box.



If the dialog box is setup through an application, all settings will be void when you quit the application.

Tab

Index which allows you to switch between the various setup screens.

Check button

Allows you to select one item from a list of options.

Output Image

The settings you made at "Orientation" and "N-Up Printing" are shown in this image.

Check box

Click this option to activate/deactivate each function.

"OK" button

Click this button to save your settings, and exit the dialog box.

"Cancel" button

Click this button to exit the dialog box without making any changes to the settings.

"Apply" button

Click to save your settings without closing the dialog box.

"Help" button

Click this button to display the help file for this driver.


Quit button

Click this button to quit the properties dialog box.


(?) button

After clicking this button, click the preference located in the dialog box you want to know more about, and receive a basic explanation.

Spin box

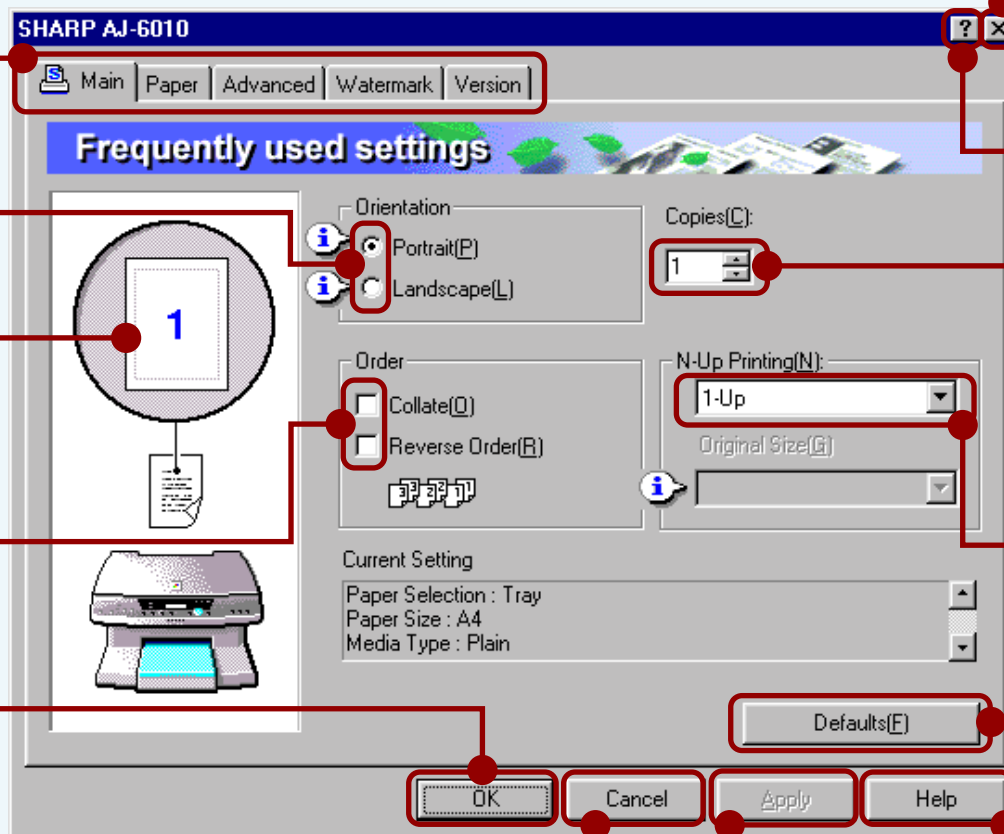
Enter the number directly or use the () buttons.

Drop-down list

Allows you to make one selection from a list of choices. Click the () button to display your choices.

"Defaults" button

Returns settings to default mode of the tab. Refer to the information page for each tab to check the values of the default settings.



"Main" Tab Settings (part 1)

Printer Properties

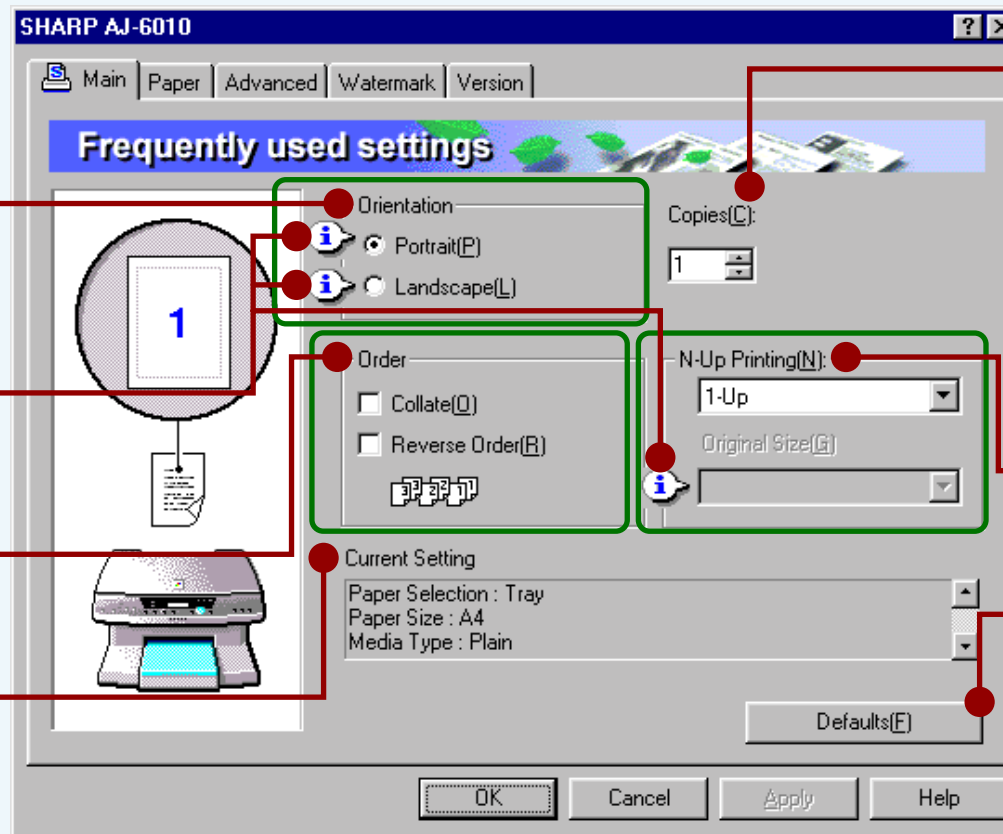
Basic print options, including orientation and the number of copies, are controlled through this dialog box. You can usually print simply by adjusting and confirming the printer options listed in this dialog box.

Select the orientation for your documents.

Further information on each option is available by clicking the (i) button.

When multiple copies are printed, this setting allows you to set the order.

Displays important print settings. Use the scroll bar to check these settings.



Set the number of copies between 1 - 50.



When either of "Banner A4", or "Banner Letter" is selected for "Paper Size", you cannot specify any value for "Copies" setting.

Allows you to set "N-Up Printing" option.

Returns all user modified settings back to default settings of this tab.

Orientation: Portrait
Copies: 1
Collate: Off
Reverse Order: Off
N-Up Printing: 1-Up

On the above screen, click on options shown in the green boxes to make additional changes.

"Main" Tab Settings (part 2)

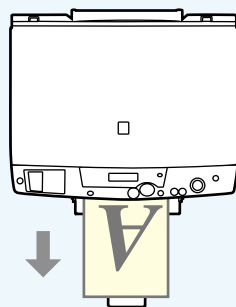
Printer Properties

Orientation

Set the orientation for your documents either to "Portrait" or "Landscape".

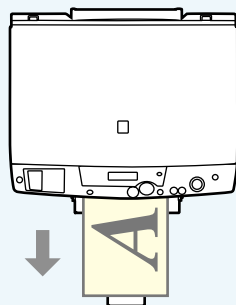
Portrait

Check this setting to print your documents vertically.

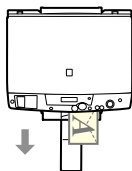


Landscape

Check this setting to print your documents horizontally.



If "Com10", "DL", "C6", or "Invitation A2" is selected for the "Paper Size" setting and set to "Landscape", the paper will be output in the orientation shown in the right illustration.



Order

Allows you to change the print out order of your documents.

Collate

When multiple copies are printed, this setting places each copy in numerical order.

Reverse Order

Check this box to print documents in reverse order.

For more detailed information, refer to the table below.

Example: When printing out two copies of a three-page document.

Collate	Reverse Order	Output Result
<input type="checkbox"/>	<input type="checkbox"/>	112233
<input checked="" type="checkbox"/>	<input type="checkbox"/>	123123
<input type="checkbox"/>	<input checked="" type="checkbox"/>	332211
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	321321

Contents

Index

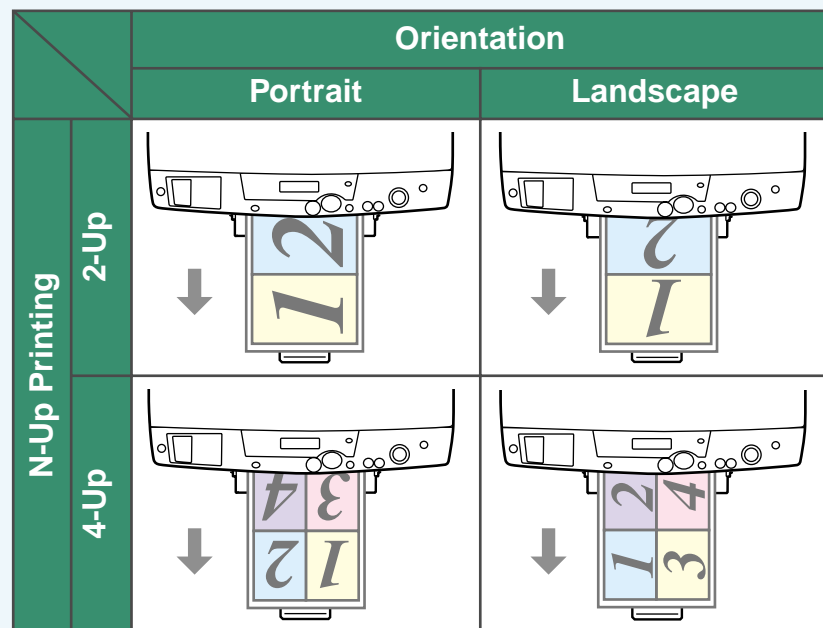
7

"Main" Tab Settings (part 3)

Printer Properties

N-Up Printing

Set this feature to place multiple reduced pages onto a single page. Select the "2-Up" option to copy two pages or the "4-Up" option to copy four pages onto a single printed page.



The illustrations above assume that the "Original Size" is set to the same size as the document size of your application.

Original Size

Set the original size when you select "2-Up" or "4-Up" for "N-Up Printing". Select the document size specified through your application from "Letter", "Legal", "Executive", "A4", "A5", "A6", "B5", "Index card 3" x 5", "Index card 4" x 6", or "Index card 5" x 8".

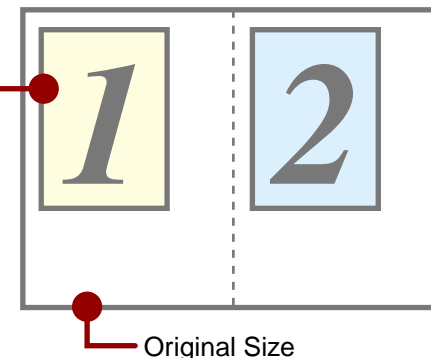


If "Original Size" is not set to the same size as the document size of your application, the output will not fit exactly on the paper.

Example:

When the document size of your application is smaller than "Original Size".

Document size of your application.



Contents

Index

8

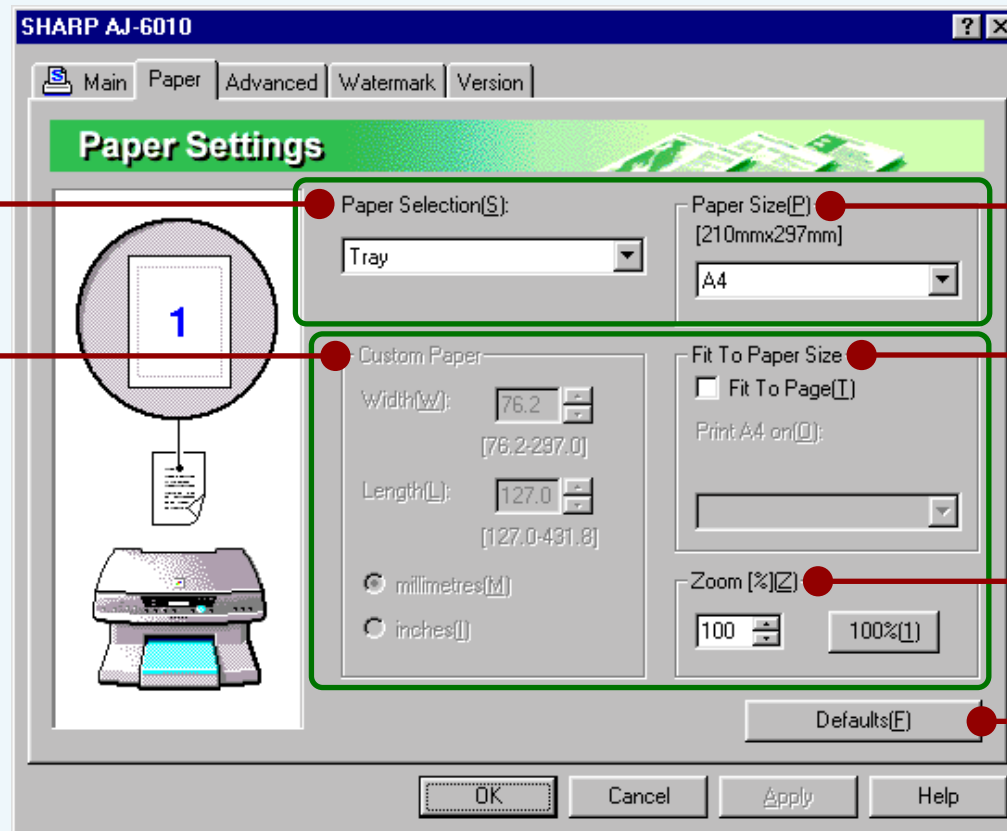
"Paper" Tab Settings (part 1)

Use this screen to select the paper size, tray and zoom.

Reference: [Guaranteed area and printable area](#)

Select the paper source.

Allows you to customize the size of the paper.



Select the paper size for your document.

Enlarges/reduces the image to fit to the size of paper in the printer.

Allows you to reduce or enlarge the size of the print.

Returns all user modified settings back to default settings of this tab.

On the above screen, click on options shown in the green boxes to make additional changes.

Paper Selection: Tray
Paper Size: A4 or Letter
Fit To Page: Off
Zoom[%]: 100%

"Paper" Tab Settings (part 2)

Paper Size

Select an appropriate paper size for your document from drop-down list.

Paper	Size
Ledger	11" x 17"
Letter	8.5" x 11"
Legal	8.5" x 14"
Executive	7.25" x 10.5"
A3	297mm x 420mm
A4	210mm x 297mm
A5	148mm x 210mm
B4	257mm x 364mm
B5	182mm x 257mm
COM10	4.125" x 9.5"
DL	110mm x 220mm
C6	114mm x 162mm
A6	105mm x 148mm
Invitation A2	4.375" x 5.75"
Index card 5" x 8"	5" x 8"
Index card 4" x 6"	4" x 6"
Index card 3" x 5"	3" x 5"
Japanese Hagaki	100mm x 148mm
Banner Letter	8.5" x 11"
Banner A4	210mm x 297mm
Custom	Min. : 76.2mm x 127.0mm (3.00" x 5.00") Max. : 297.0mm x 431.8mm (11.69" x 17.00")



Caution

- The document size must be smaller than the selected (loaded) paper. If not, printing will occur over the edge of the paper causing the machine to become internally dirty.
- Ledger, A3, or B4 sized paper can not be loaded in this printer. The print image should be reduced by the "Fit To Paper Size" or "Zoom[%]" setting.



Note

"N-Up Printing", "Fit To Page", and "Zoom[%]" settings are not available when you select "COM10", "DL", "C6", "Invitation A2", "Japanese Hagaki", "Banner Letter", or "Banner A4" sized paper.

Paper Selection

Select "Tray" or "Bypass" for your print job.

Tray

Paper is fed to the printer from the paper tray.

Bypass

Paper will be fed to the printer from the bypass tray. Only one sheet can be loaded into the bypass tray. To load paper into the bypass, align the paper with the right side of the bypass.

When printing one page:

Select "Bypass" for "Paper Selection" setting and send the print job. "Please set a sheet of paper on bypass and press the START button" message will appear on the print status window. After confirming the messages, open the bypass tray to set the paper and then press the START button (⏏) on the unit.

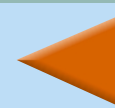
When printing more than one page:

The message described above will also appear when printing of the first page has completed. Load the paper again for the next page, and then press the START button (⏏). Repeat this process for each page.



Caution

Make sure to insert "Banner Letter" and "Banner A4" through the bypass tray. Max. 5 sheets of banner paper can be set to the bypass tray. Make sure that your application supports Banners when you intend to print onto Banners.



"Paper" Tab Settings (part 3)

Custom Paper

Custom paper sizes for your document.



To utilise this option, the "Paper Size" option **must be set** to "Custom".

Width

Click the up and down arrows of the spin box, or enter a number to customize the width to the custom paper you wish to use.

Length

Click the up and down arrows of the spin box, or enter a number to customize the length to the custom paper you wish to use.

millimetres / inches

Select the units of measurement for paper size settings: either "millimetres" or "inches".



Paper sizes larger than 215.9mm x 355.6mm (8.5" x 14") cannot be used in this printer. You can print the image by using the reduction feature of the "Zoom[%]" setting.

Fit To Paper Size

Fit To Page

Check this box to fit the image to the paper size. If this function is selected, you can fit the paper size specified for "Paper Size" setting to the size listed on the drop-down options of "Fit To Paper Size".

Example "Print A4 on:" A6



- When "COM10", "DL", "C6", "Invitation A2", "Japanese Hagaki", "Banner Letter", or "Banner A4" is selected for "Paper Size", this function is **disabled**.
- The "Fit To Paper Size" option **cannot** be utilised when the "N-Up Printing" option in the "Main" tab is selected.

Zoom[%]

Allows you to reduce or enlarge the size of the print from 25% to 200% in 1% increments.



- The "Zoom[%]" option **cannot** be utilised when the "N-Up Printing" option in the "Main" tab is selected.
- If "Fit To Page" is checked, you **cannot** specify any value for "Zoom[%]" settings.

"100%" button

Click to return to 100% (default setting).

Guaranteed area and printable area

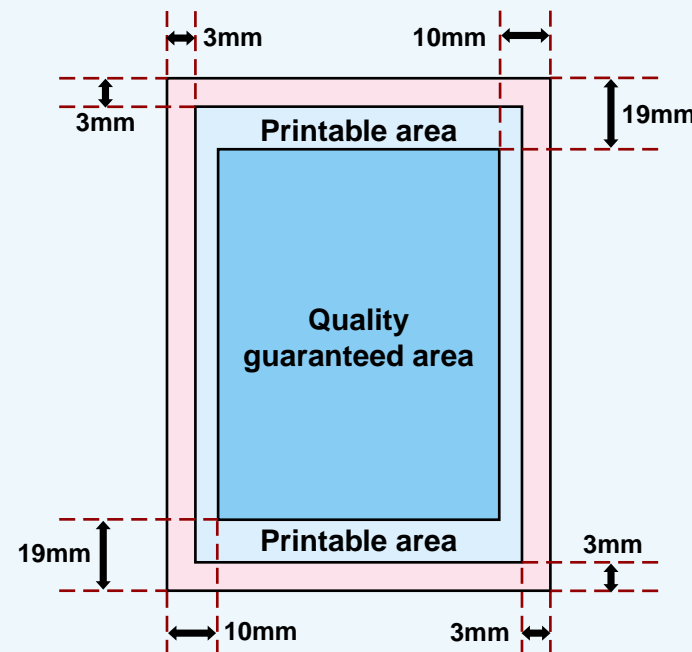
This printer can print onto the following area of the paper. It is recommended that you specify margins from your application to fit within the quality guaranteed area.

Quality guaranteed area

Guaranteed area is inside 19mm from the top / bottom edge of the paper, and 10mm from the right / left edge of the paper.

Printable area

The void area of the printer driver is 3mm from the paper edges. The print quality may be degraded outside the guaranteed area according to the contents of your document.



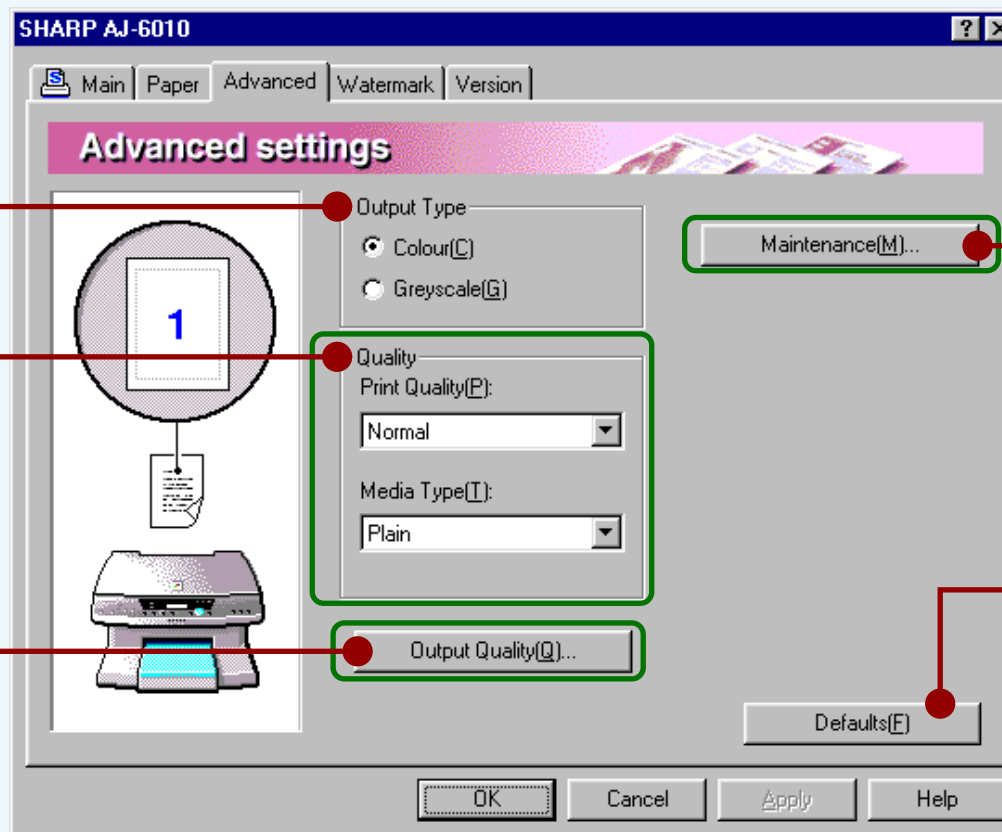
"Advanced" Tab Settings (part 1)

Set your colour and quality preferences for printing using this screen.

Set printer output preferences to colour or greyscale.

Customize printer output quality to suit your needs.

Open to set output quality and adjust colours.



Click to access maintenance options.

Returns all user modified settings back to default settings of this tab.

Output Type: Colour
Print Quality: Normal
Media Type: Plain

On the above screen, click on options shown in the green boxes to make additional changes.

"Advanced" Tab Settings (part 2)

Quality

Set the printer output quality settings below.

Print Quality

This option sets printing speed and quality. You can trade off speed for quality. "Draft" is the fastest and lowest quality, "Best" is the slowest and best quality.

Draft	Select this option when you want to print text data with high speed. If you print graphics, illustrations, or lines with this option, the print quality is low.
Sharp Special	Select this option when you want to print a document containing graphics or illustrations with high speed. This option provides a lower print quality than "Normal" or "Best".
Normal	This option offers you normal print quality with normal print speed.
Best	Select this option when you want to get high print quality for photographs or images.

* The print quality also depends on the specified (loaded) paper type.



- If lines are broken when printing with "Draft", change the setting to any other option.
- Some of the settings cannot be selected depending on the "Media Type".

Media Type

Select the type of paper to be used. Select from "Plain", "Coated", "Photo", "Transparency", "T-shirt transfer", and "Card Stock".

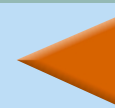
Insert the paper that was selected into the tray.

For more information on various paper types, refer to the following table.

Media Type	Description	Media Usage
Plain	Normal office paper (copier paper and high quality paper)	Corporate documents
Coated	The print side of coated paper is whiter.	Graphics, Images
Photo	The print side of photo paper is glossy.	Photographs
Transparency	Overhead presentation on clear film. The print side of transparency film is rougher.	Overhead presentations
T-shirt transfer	This media is to be transferred to cloth materials by an iron.	T-shirt, Place mat
Card Stock	Thick plain paper	Card printing



- Be sure to use Sharp recommended OHP films when you select "Transparency".
- If you select "T-shirt transfer", the original image will be reversed on the printed media to make a proper image on the T-shirt.
- When "Card Stock" is selected, be sure to turn the paper knob to (✉) direction to feed the thicker card stock.



"Output Quality" Settings

Printer Properties

Set the colour matching as well as the brightness, contrast and colour balance of an image.

Check your colour image preferences using this screen.

Allows you to select the Colour Management System. The Colour Management System enables you to adjust the image colour on your display to the result of the print job.

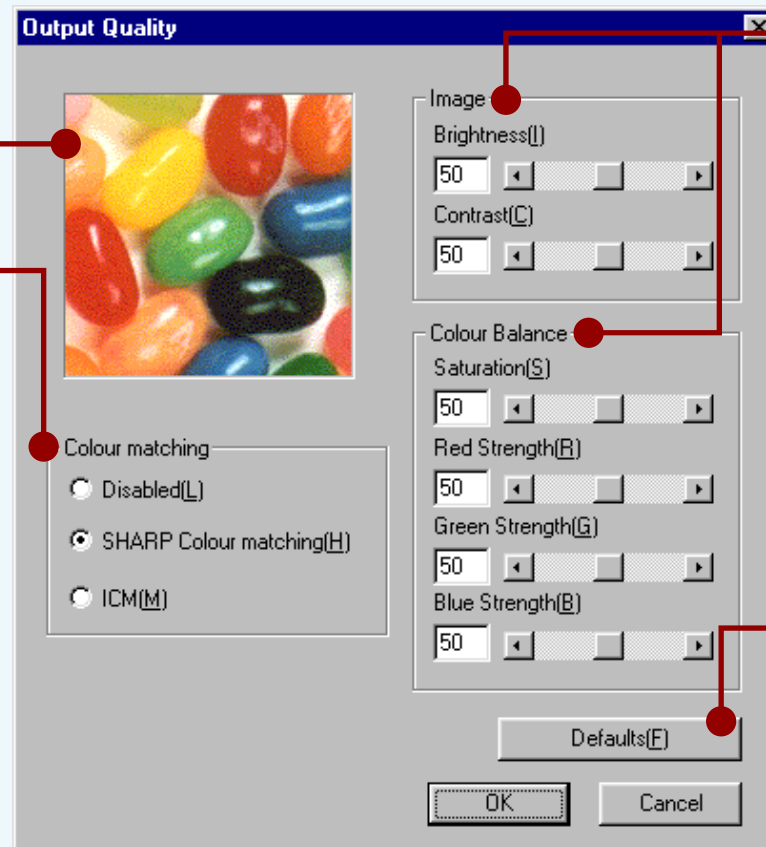
SHARP Colour matching

Select this option to utilise SHARP's original Colour Management System.

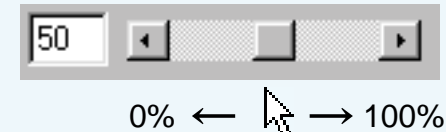
ICM

Select this option to utilise Windows standard Colour Management System.

- Note**
- By selecting "ICM", both the "Image" and "Colour Balance" options become **disabled**.
 - The "ICM" setting is unavailable with Windows 95.



Set the brightness, contrast and colour balance level of your print job here.



Directly enter the figure or move the scroll bar.



Caution

To print a document containing text data, make sure to keep the values of "Red Strength", "Green Strength" and "Blue Strength" above 50. When set under 50, background of characters in your document may be printed in a different colour.

Returns all user modified settings back to default settings of this dialog box.

Colour matching: SHARP Colour matching
Brightness: 50%
Contrast: 50%
Saturation: 50%
Red Strength: 50%
Green Strength: 50%
Blue Strength: 50%

"Watermark" Tab Settings (part 1)

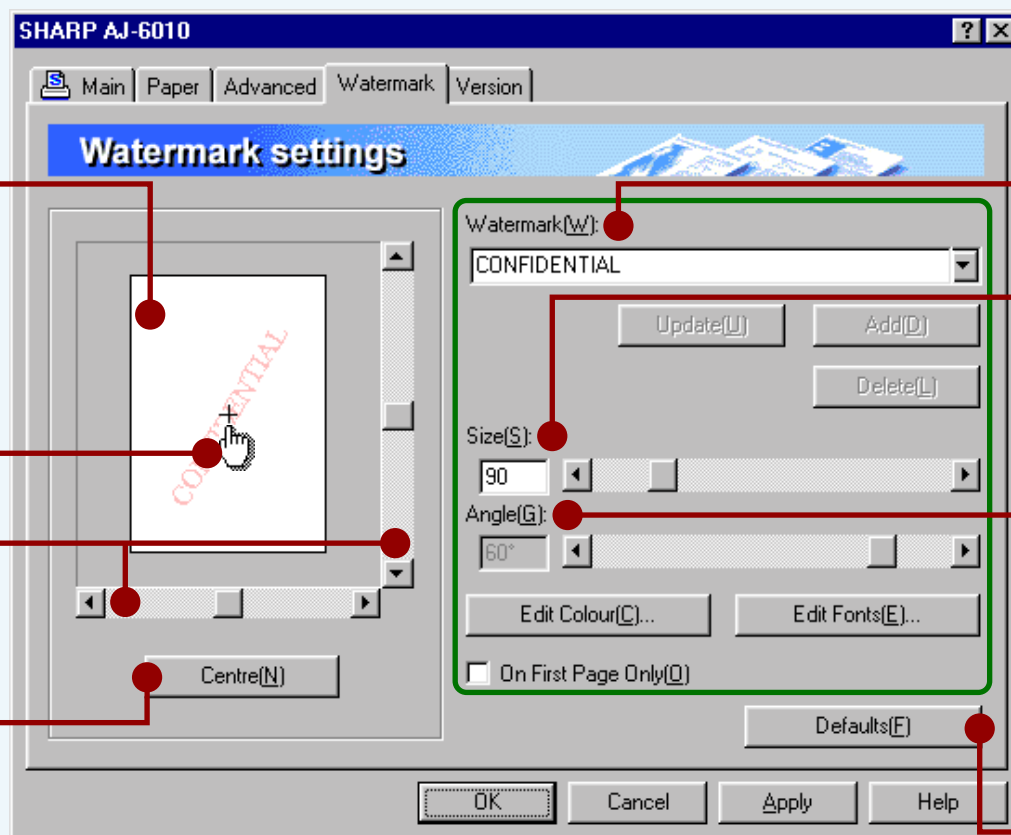
Use this screen to set watermarks.

Use this screen to view how the watermark will appear on your document.

You can drag the watermark to your favourite place by using the mouse.

Move the location of the watermark using the scroll bar.

Click this button to centre a watermark in the middle of the document.



Select the type of watermark.

Use the scroll bar or enter a figure to set the font size of a watermark from 6 to 500 points.

Use the scroll bar to set the print angle of a watermark from -90° to 90°.
(The angle can be set in 15° multiples.)

Note You cannot type the desired angle value in this field.

On the above screen, click on options shown in the green boxes to make additional changes.

Returns all user modified settings back to default settings of this tab.

Watermark: (None)
On First Page Only: Off

Watermark

Select a watermark from the drop-down list. Select from "TOP SECRET", "CONFIDENTIAL", "DRAFT", "ORIGINAL" and "COPY". No watermark will appear on the document if "(None)" is selected. You can also create and input your original watermarks.

"Update" button

Select your original watermark from the drop-down list. After adjusting the size and angle to suit your preferences, click the "Update" button to save.



You cannot permanently save changes to the size and angle of a default watermark using this button. To permanently save all new changes use the "Add" button.

"Add" button

Enter your text over the currently displayed text and click this button to add a new watermark.

After selecting a watermark from the drop-down list and setting its size and angle, click this button to add new changes.

"Delete" button

To remove your original watermark from the drop-down list, select it and click this button.



Default watermarks cannot be deleted.

"Edit Colour" button

For setting the colour of a watermark, click this button to display the "Color" dialog box.

For more information on this dialog box, click the (?) button, and then point and click on the item that you want information on.

"Edit Fonts" button

To adjust the font style of a watermark, click this button to display the "Font" dialog box.

For more information on this dialog box, click the (?) button, and then point and click on the item that you want information on.

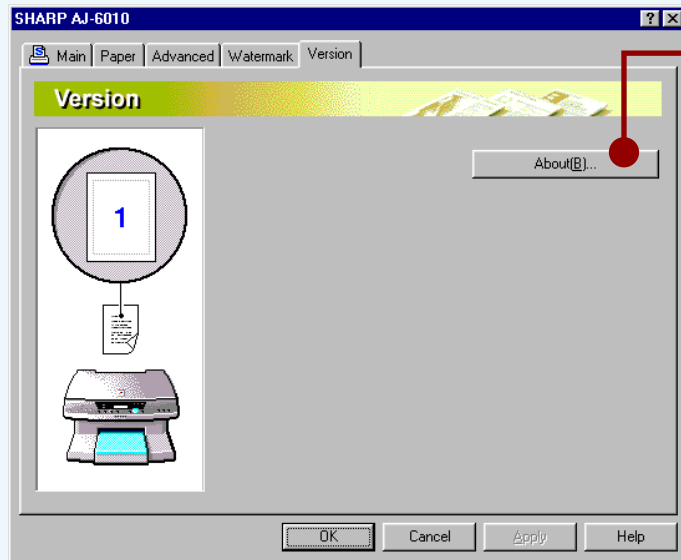
On First Page Only

Check this box to ensure a watermark is printed only on the first page of the document. By leaving this box unchecked, the watermark will appear on every page of the printed document.

"Version" Tab Settings

Printer Properties

Information about the printer driver version is shown on this screen.



"About" button

Click this button to display the "About" dialog box for information on the driver name and version.

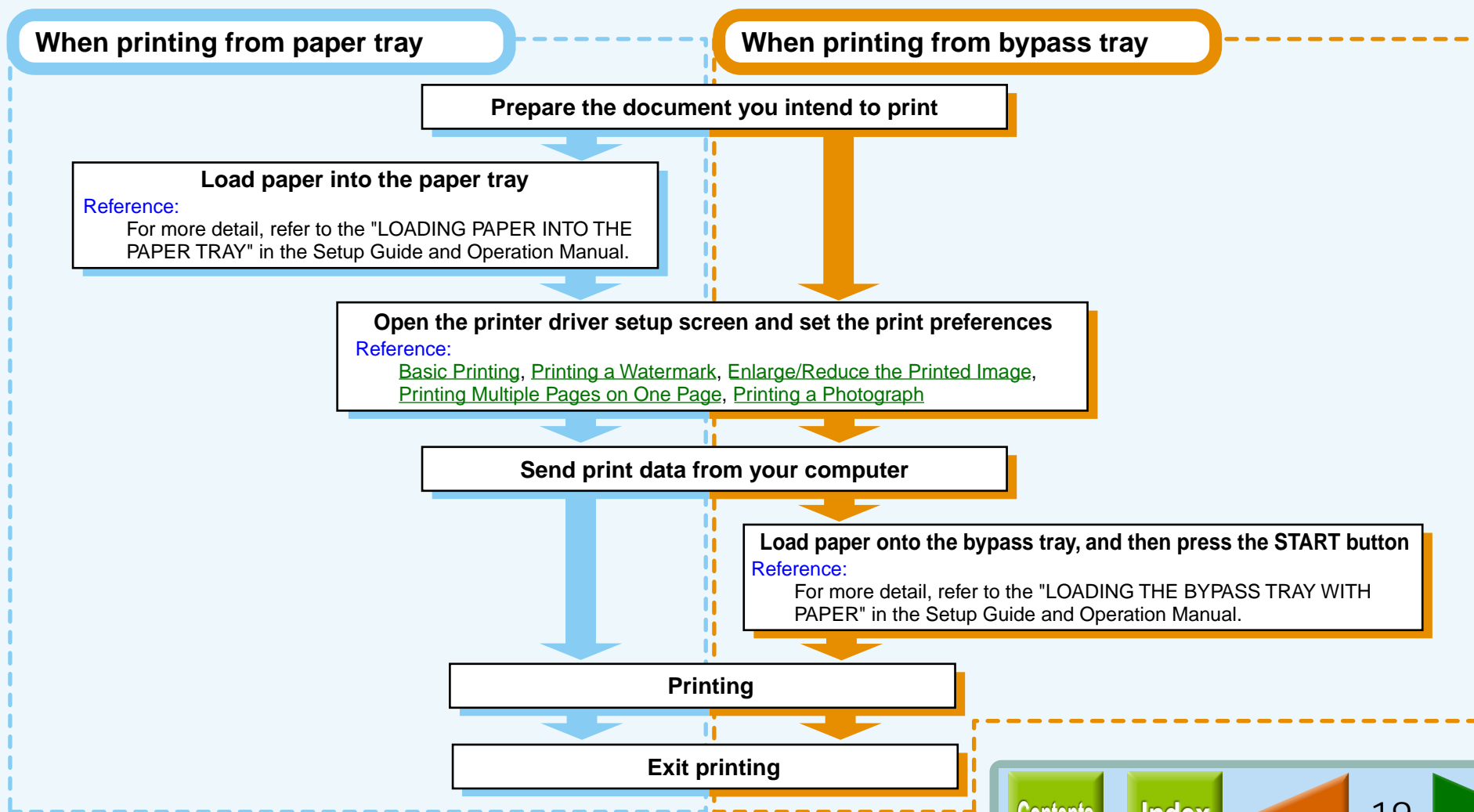
The flow chart shown below provides printing overview.

Reference: For more information on printing, refer to [Basic Printing](#).



Caution

Ensure printing has been completed before turning the power off. Do not remove the power cord before turning the printer off.



This is a printing example using WordPad to print a document onto A4 size paper.

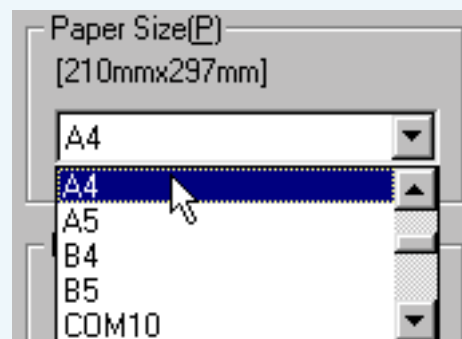
1 Start WordPad, make a new file, and enter the text you intend to print.

2 Select "Print" from the application's "File" menu. Make sure that "SHARP AJ-6010" is selected as the current printer, and then click the "Properties" button.

The properties dialog box will open.

Reference: See the [Starting the Printer Driver through an Application](#) for details on how to open the properties dialog box.

3 Click the "Paper" tab, and select "A4" from the "Paper Size" drop-down list.



Reference: ["Paper" Tab Settings](#)

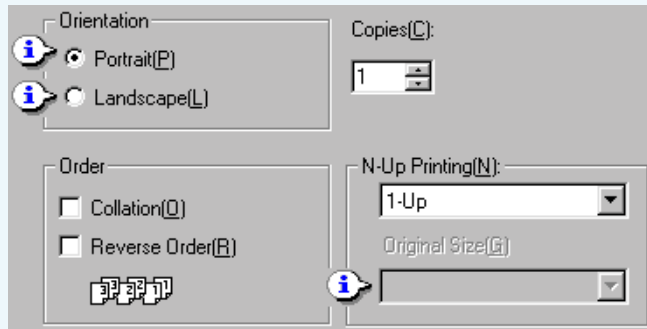
Basic Printing (part 2)

Print

4

Click the "Main" tab. After setting your preferences, click the "OK" button.

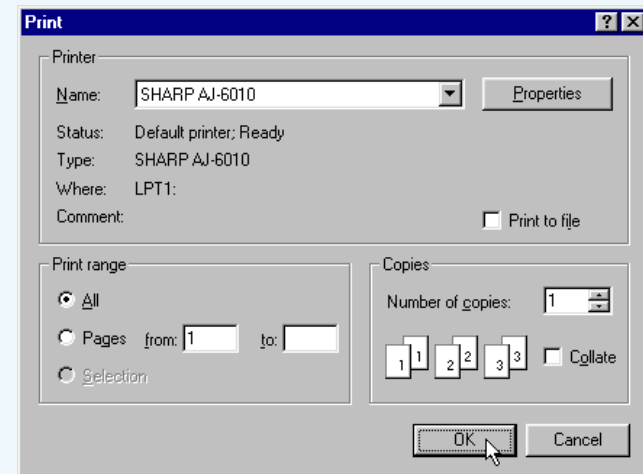
To print a single copy of a document in portrait orientation, confirm the "Portrait" option in the "Orientation", and "1" in the "Copies" box.



Reference: See the ["Main" Tab Settings](#) for information on setting preferences.

5

Click the "OK" button in the "Print" dialog box.



Printing starts according to your preferences.

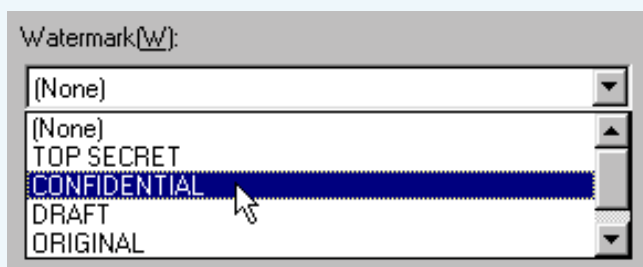
To print a watermark, for example "CONFIDENTIAL", on your document, refer to the following steps. Open the printer driver and click the "Watermark" tab.

Reference: See the [Starting the Printer Driver through an Application](#) for details on how to open the printer driver.

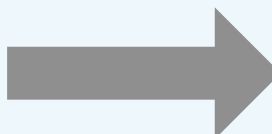
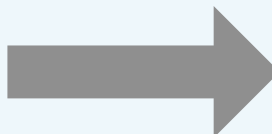
How to Print a Watermark

From the "Watermark" drop-down list, select the watermark, for example "CONFIDENTIAL", you wish to print on your document, and click the "OK" button.

Reference: See the ["Watermark" Tab Settings](#) for details on how to create your own watermarks.



Print sample



You can enlarge or reduce the size of your document from 25% to 200% in 1% increments.

To use this option, open the properties dialog box, select the "Paper" tab, and type a percentage, or click the arrows in the "Zoom[%]" box to change the setting.

Reference: See the ["Paper" Tab Settings](#) for details on "Zoom[%]" option.

Automatic Zooming to the Loaded Paper

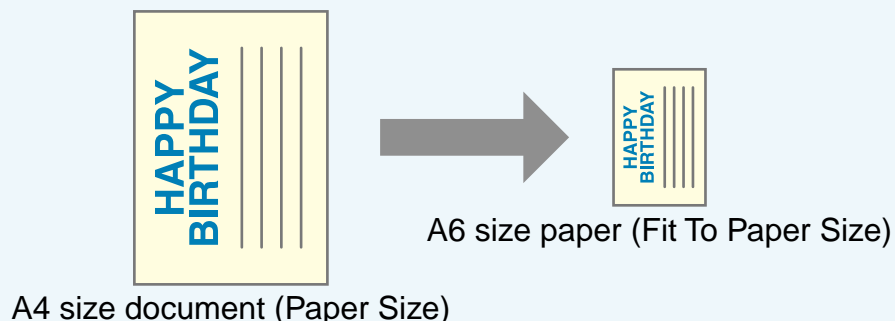
This printer driver can adjust the zoom ratio for printing according to the paper loaded in the printer.

To use this function, select the "Paper" tab from the properties dialog box of the printer driver, check the "Fit To Page" selection box, and then select the document "Paper Size" from the drop-down list. Set the currently loaded paper size as indicated under the "Fit To Paper Size" setting drop-down list.

Reference: See the ["Paper" Tab Settings](#) for information on the "Fit To Page" setting.

Example: Printing a A4 size document on A6 size paper.

"Print A4 on:" A6



Printing Multiple Pages on One Page

Print

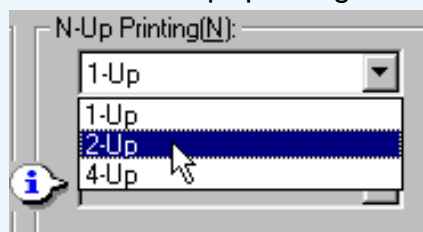
This feature allows you to print two or four document pages onto a single page. To use this function, open the properties dialog box, select "2-Up" or "4-Up" for "N-Up Printing" on the "Main" tab, and then select the same paper size from the drop-down list of "Original Size" setting that has been selected for the document size specified through your application.

[Reference:](#) See the ["Main" Tab Settings](#) for details on the "N-Up Printing" option.

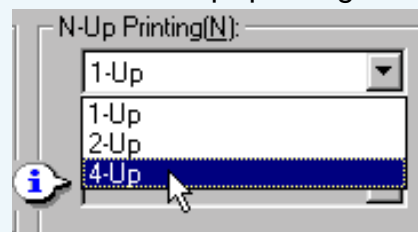


By selecting the "N-Up Printing" option, the "Zoom[%]" function becomes disabled.

For "2-Up" printing

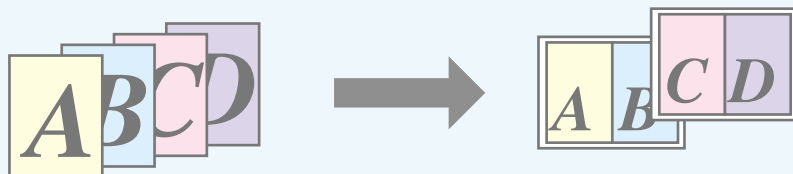


For "4-Up" printing



"2-Up" Printing

"2-Up" printing places two pages of the document stack onto a single printed page.



"4-Up" Printing

"4-Up" printing places four pages of the document stack onto a single printed page.



Printing a Photograph

Print

To ensure pictures taken with a digital camera are printed clearly, use quality photo paper and follow the instructions below.



When loading photo paper into the paper tray, insert the glossy side face down. When loading photo paper into the bypass tray, insert the glossy side face up.

- 1 Click the "Advanced" tab in the properties dialog box, and check if the "Output Type" option is set to "Colour".
- 2 In the "Quality" area, set the "Print Quality" option to "Best".

- 3 In the "Quality" area, set the "Media Type" option to "Photo".

The result of setting the preferences as shown from Step 1 to Step 3 are displayed below.

Output Type

☒ Colour(C)
☐ Greyscale(G)

Maintenance(M)...

Quality

Print Quality(P):
Best

Media Type(T):
Photo



If required, you may adjust the image or colour balance through clicking the "Output Quality" button. For details, view the ["Output Quality" Settings](#).

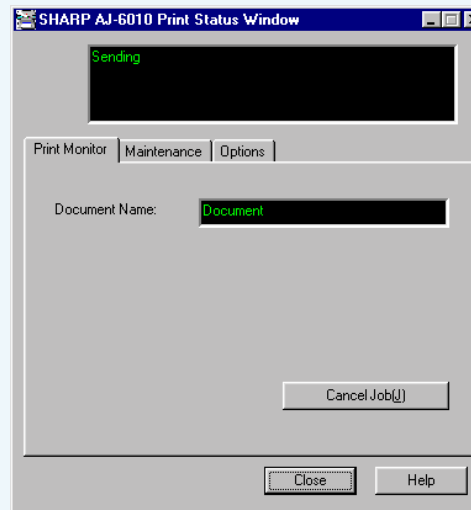
What is the Print Status Window?

The print status window is a program designed to show the remaining ink levels and current printer status including the document name printing and error messages. It also controls head cleaning and head position adjustment. The print status window contains status window and three tabs. The status window displays Normal, Warning and Fault type messages.

Reference: [Print Status Window Functions](#), [Understanding Error Messages](#), ["Maintenance" Tab](#), ["Options" Tab](#)

Starting the Print Status Window

The default setting of the print status window is to open automatically when printing starts.



To open the print status window while the printer is not working, select "Advanced" tab from the printer driver properties dialog box, and then click the "Maintenance" button.

Print Status Window Functions

Print Status Window

The functions of the print status window are shown below.

Program icon

This icon informs you of the print status.

Reference:

[Understanding Error Messages](#)

Status icon

This icon informs you of the print status.

Reference:

[Understanding Error Messages](#)

Tab

Index which allows you to switch between the three setup screens.

"Cancel Job" button

Click this button during printing to cancel the job that is currently being executed.

"Close" button

Click this button to close the print status window.

Minimize button

Click this button to minimize the print status window into the task bar.

Quit button

Click this button to quit the print status window.

Status window

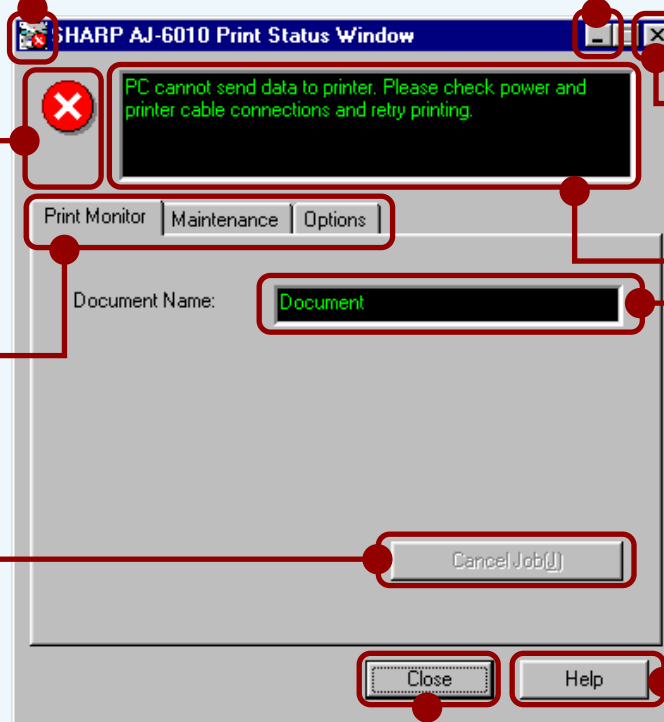
Provides details on the current status of the print job.

Document Name

Displays the name of the active print job.

"Help" button






Click this button to display help file for the print status window.



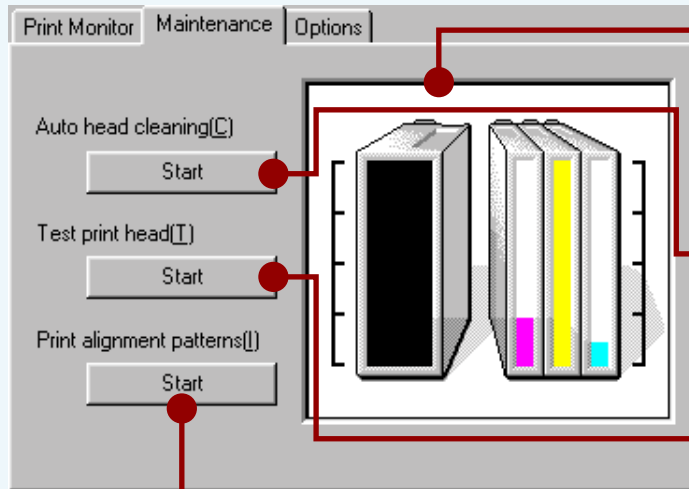
The status icon and program icon provide you with information on printer status.

Understanding the Status and Program Icon

Refer to the table below for an explanation of the printer condition.

Program icon	Status icon	Condition
	None	Normal
		Fault Printing has stopped because of a problem. Follow the instruction on the status window to solve the problem immediately.
		Warning A problem requires your attention. Follow the instruction on the status window to solve the problem as soon as possible.

Click this tab to conduct print head maintenance, and to check the amount of available ink.



Remaining ink indicator window

This window indicates the level of ink remaining in the printer. A message appears when the ink tank is nearly empty. Prepare a new ink tank and replace it when required.

Reference: [Changing the Ink Tank](#)

Auto head cleaning

Click the "Start" button to initiate cleaning of the print head. After the dialog box for selecting which print head to clean appears, click the "OK" button.

Reference: [Cleaning the Print Head](#)

Test print head

Click the "Start" button to print a test page which lets you check the print quality. After the confirmation dialog box appears, click the "OK" button.

Reference: [Test Print Head](#)

Print alignment patterns

Click the "Start" button to print a test chart to align the print head. After the confirmation dialog box appears, click the "OK" button. The "Align print head" dialog box opens and a test chart is printed.

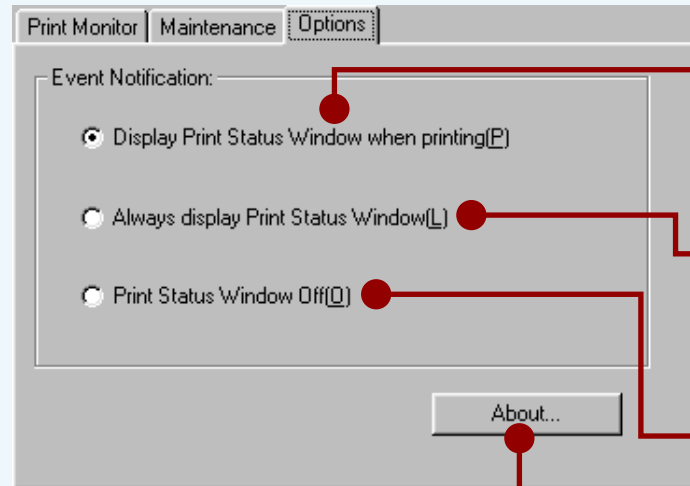
Reference: [Aligning the Print Head](#)



Note

When cleaning and aligning the print head, the printer cannot perform other operations.

Allows you to select when to display the print status window.
Select one option from the three shown below.



Display Print Status Window when printing

The print status window will be displayed automatically at the start of the print job. It will close automatically when the print job is finished.

Always display Print Status Window

The print status window will be displayed all the time. It will stay open even after the print job is finished.

Print Status Window Off

The print status window will not be displayed even while printing if this option is selected.

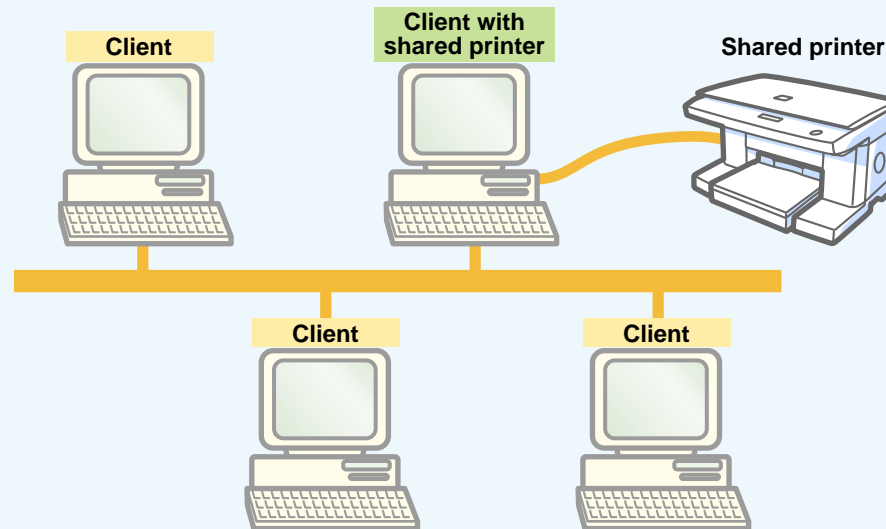
"About" button

Click for details on the version of the print status window.

Sharing the Printer using Windows Networking

Using Windows networking, it is very easy to share the printer.

Rather than using a network server, we will explain how to connect the printer using a Peer To Peer connection. Our explanation, shown below, is based on the following assumptions; there is an established network in place.



With Peer To Peer connections, the print server is a client to which a printer is directly connected, and a "Client" is any computer, which is connected to the same network.

Shared Printer Settings



Client Settings

For sharing a printer on a Windows operating system, follow the setup procedures below.

On the computer to which the printer is directly connected

1 Click the "Start" button, select "Settings", and then click "Control Panel".

2 Double-click the "Network" icon.
The "Network" dialog box will appear.



3 Click the "File and Print Sharing" button.

4 Enable "I want to be able to allow others to print to my printer(s)." by clicking the check box (☑), and then click "OK" button.

5 Click the "OK" button in the "Network" dialog box.



If a message appears asking you to restart the computer, click the "Yes" button and restart the computer. Then, open the printer folder and continue the setup procedures from Step 6.

6 Double-click the printer icon in the control panel.



7 Right-click the "SHARP AJ-6010" printer driver icon, and select "Sharing" from the pop-up menu.

8 Enable the check button for sharing (☑), input your preferences, and click "OK" button.



For information on the various preferences available, click the (?) button located at the top-right of the dialog box. Then, click the option you want to know more about, for a pop-up explanation to appear.

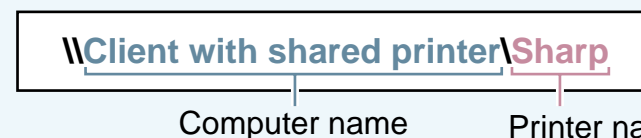
You have completed the setup procedures for the shared printer.

Reference: [Client Settings](#)

After installing the printer driver on the client computer, follow the setup procedures below. For details on installing the printer driver, refer to "INSTALLING THE PRINTER DRIVER" in the Setup Guide and Operation Manual.

- 1 Click the "Start" button, select "Settings", and then click "Printers".
- 2 Right-click the "SHARP AJ-6010" printer driver icon, and select "Properties" from the pop-up menu.
- 3 Click the "Details" tab, and click the "Add Port" button.

- 4 Type the port name as shown below or click "Browse" button and double-click Server's computer name and then click "Sharp".


Computer name Printer name

- 5 Input your options, and click the "OK" button.



Note

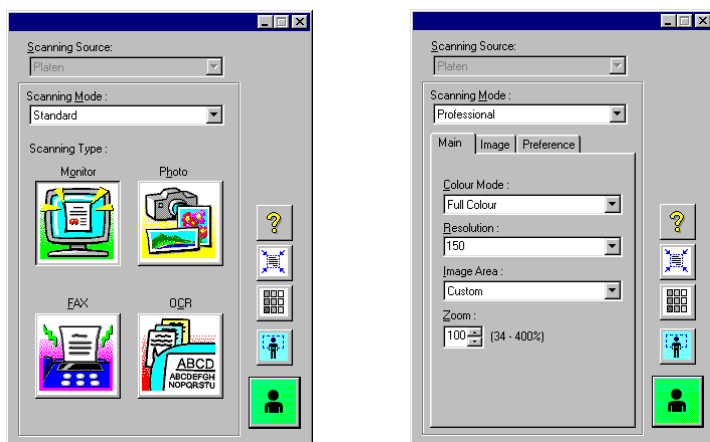
For information on the various preferences available, click the (?) button located at the top-right of the dialog box. Then, click the option you want to know more about, for a pop-up explanation to appear.

What is the SHARP TWAIN Driver?

The SHARP TWAIN driver conforms to TWAIN, the industry standard, making it compatible with a variety of TWAIN-compliant applications. This driver consists of "Set-up" and "Display image" screens, both of which have two screens respectively as shown below.

Reference: [Starting the SHARP TWAIN Driver](#), [SHARP TWAIN Driver Functions](#)

Set-up screen



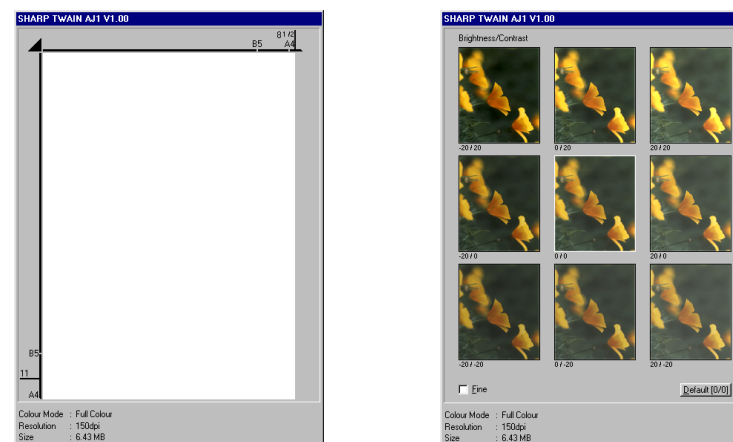
"Standard" screen

The four buttons enables you to set the scan type easily.

"Professional" screen

Use three tabs for scan setting in detail.

Display image screen



Preview screen

Displays preview image, allowing you to set the scanning area.

Variation preview screen

Displays nine different preview images, allowing you to set "Brightness" and "Contrast".

Click any of the screens displayed above to jump to its detailed description.



TWAIN is an industry standard for interface of image data processing devices including scanners. By installing a TWAIN driver onto your computer, you can scan and work with images using a variety of TWAIN-compliant applications. This allows you not only to scan images efficiently, but also to eliminate any necessity of switching among various image acquiring applications and plug-in drivers depending on your job.

Starting the SHARP TWAIN Driver

Scanning

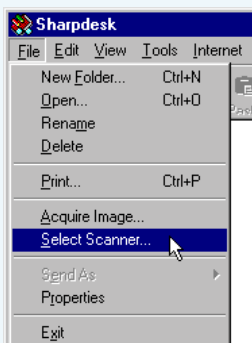
Follow the steps shown below to run the SHARP TWAIN setup screen. As an example, this instruction is given using Sharpdesk as a data processing application. Start Sharpdesk first.

Reference: Refer to [Scanning an Image](#) for the detail of scanning process.

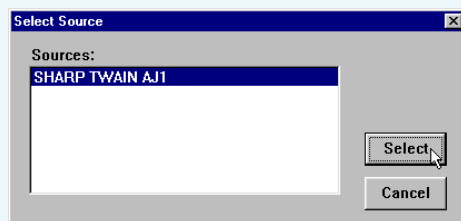


The method for starting the SHARP TWAIN driver differs depending on the type of application. Refer to the manual or the help file of your application.


1 Click the "File" menu and select "Select Scanner".



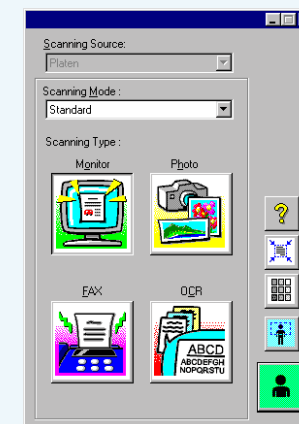
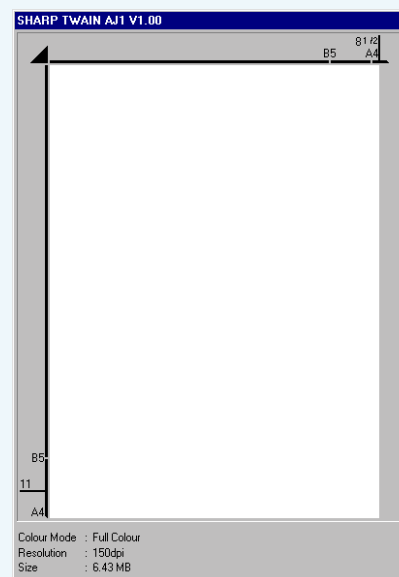
2 Select "SHARP TWAIN AJ1", and click the "Select" button.



If you use more than one scanning device, select the scanner you want to use through the application. The method for accessing the "Select Scanner" option, depends upon the application. For more information, refer to the manual or the help file of your application.

3 Select "Acquire Image" from the "File" menu, or click the "Acquire" button () to display the SHARP TWAIN driver.

The SHARP TWAIN driver will appear.




Contents

Index

35

Below is a step-by-step guide for acquiring a scanned image to the Sharpdesk desktop screen using Sharpdesk. It is assumed that the SHARP TWAIN driver has been installed without changing the default setting, and Sharpdesk is running.

- 1 Place a document on the original table.**
Reference: For information on setting a document for scanning, refer to "MAKING COPIES" in the Setup Guide and Operation Manual.


- 2 From Sharpdesk, select "Acquire Image" from the "File" menu, or click the "Acquire" button ().**

- 3 Click the "Preview" button ().**
The preview image will appear.



If the rotation or angle of the image is different, reset the document, and click the "Preview" button again.

- 4 Specify the scanning area, and set the scan preferences.**

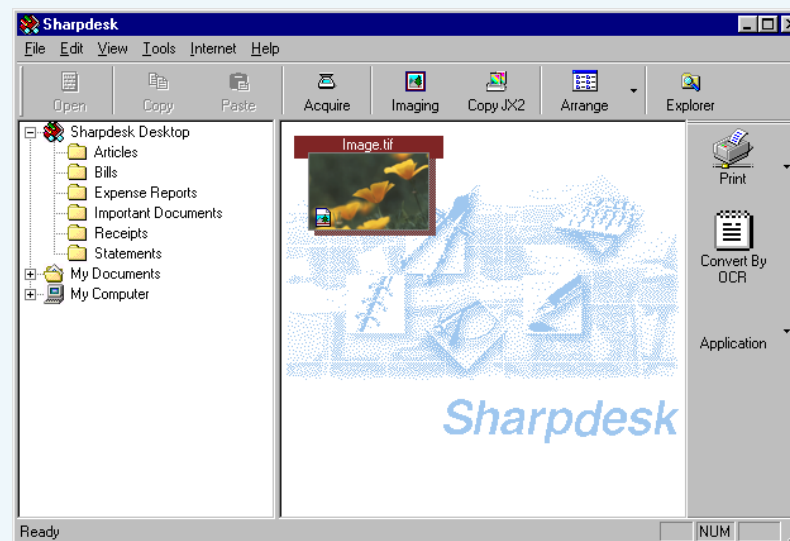
To specify the scanning area, follow the steps on the [Preview Screen](#), or use the ["Auto Scan Area Judgement" button](#) (), or ["Image Area"](#).

To set the scan preferences, use the four buttons displayed on the ["Standard" screen](#). To set your scan preferences in detail, go to the ["Professional" screen](#). To adjust the brightness and contrast of the scanned document, refer to [Variation Preview Screen](#).



Setting a large area with full colour together with a high resolution setting, makes the data size large, resulting in extended scanning times. It is recommended to set the scanning preferences depending on the type of original to be scanned, i.e., Text, Text/Graphics, Photograph, Colour, Black & White.

- 5 Click the "Scanning" button () after setting your preferences.**



After scanning, the image data will appear as a new file in Sharpdesk.

"Scanning Source" menu

For this model, this setting is fixed to "Platen".

"Scanning Mode" menu

Switch the scanning mode between the "Standard" and "Professional" screen.

Reference:

["Standard" Scan Preferences](#)

["Professional" Scan Preferences](#)

"Preview Screen" button ()

"Variation Preview Screen" button ()

Switch the display between the Preview Screen and Variation Preview Screen.

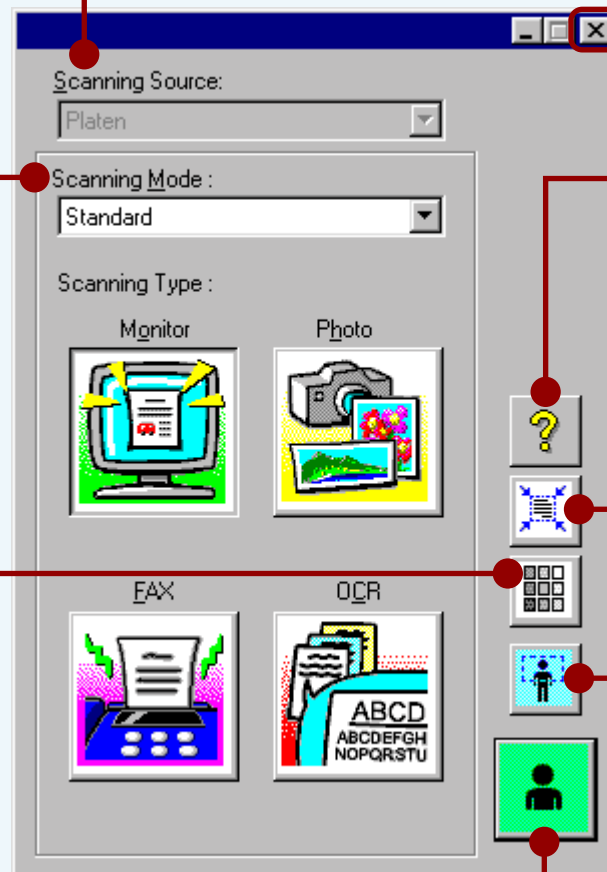
Reference:

[Preview Screen](#)

[Variation Preview Screen](#)

"Scanning" button

Click to scan a document or image according to your preferences. Before clicking the "Scanning" button, check if your preferences are set correctly.



Quit button

Click this button to quit the SHARP TWAIN driver.

"Help" button

Click to display the help file for the SHARP TWAIN driver.

"Auto Scan Area Judgement" button

Click when the preview screen is displayed to automatically set the scanning area.



"Preview" button

Previews the document.

"Standard" Scan Preferences

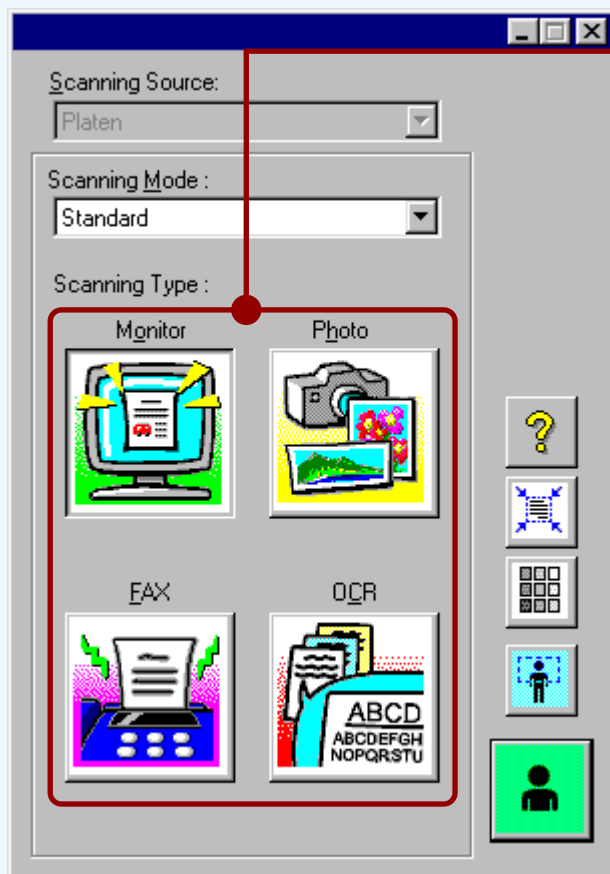
Scanning

By default, four scan settings are specified for the four buttons on this screen respectively. You can access the most frequently used settings with a simple click.



The following settings for scanning through the "Standard" screen are fixed.

Colour Matching: For Printer, Interactive: On, Zoom: 100%, Reverse: Off, Auto Contrast/Brightness Adjustment: On, Edge: Soft



"Scanning Type" button

Select from "Monitor", "Photo", "FAX", and "OCR" button.

Default settings and possible usage for each button are shown below.

Button	Default setting	Possible usage
Monitor	Colour Mode: Full Colour Resolution: 75dpi	Sets preferences for a scanned item to be displayed as desktop image, or showed on-screen.
Photo	Colour Mode: Full Colour Resolution: 200dpi	Sets preferences to scan and print a picture, image, etc.
FAX	Colour Mode: Greyscale Resolution: 200dpi	Sets preferences to send a pamphlet, catalogue, etc, by FAX after scanning.
OCR	Colour Mode: Mono 2 gradation Resolution: 300dpi Auto Threshold: On	Sets preferences for a scanned item to be displayed in text data format.



- The preferences for the four buttons listed above can be altered on the "Professional" screen. Click the "Preference" tab and then click the "Standard Mode Setting" button.
- When the "Auto Threshold" setting is activated, the preview image may be different from the scanned image.
- When the "Auto Threshold" setting is deactivated, the "B/W Threshold" will be 128.

Contents

Index

38

"Professional" Scan Preferences ("Main" Tab) (part 1)

Scanning

By setting the "Scanning Mode" menu to "Professional", the "Professional" screen will be displayed. Use this screen to specify more detailed settings than the "Standard" screen.

Tab

Index which allows you to switch between the three setup screens.

Colour Mode

Use to set the colour mode for scanning.

Resolution

Use to set the scan resolution.

Click the (▼) button, and select from "75", "150", "300", "600", or input the required figure into the box. (50dpi - 9600dpi)

The available values vary depending on the size of the scanning area. If you want to scan with high resolution, set the scanning area as small as possible.



When you change the value for "Resolution" while "Zoom" is specified to other than 100%, a warning message will appear.

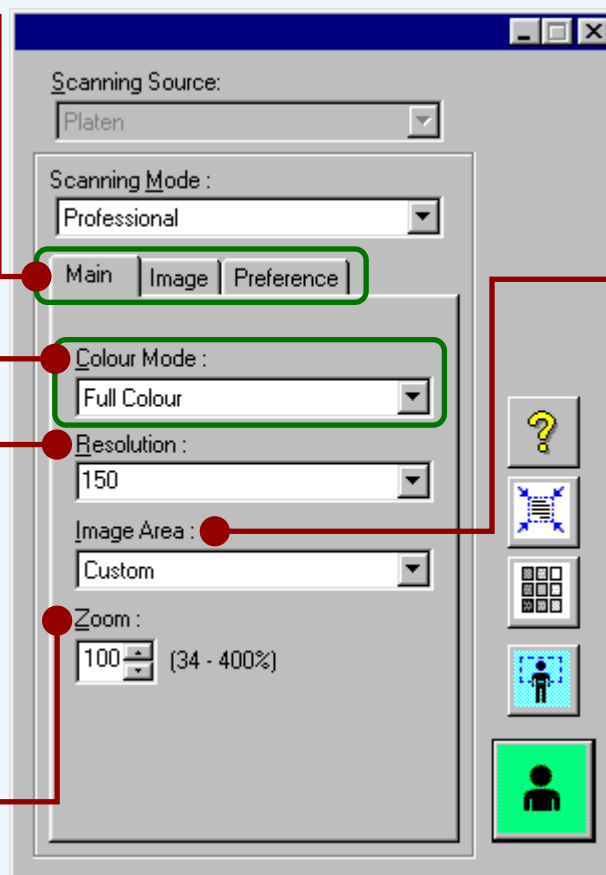
Zoom

Maximize/Minimize the image to be scanned without changing the resolution setting.

Click the (⏏) button to increase or decrease the setting figure, or input the required figure into the box provided.



The available values vary depending on the specified value for "Resolution" and the size of the scanning area.



On the above screen, click on options shown in the green boxes to make additional changes.

Image Area

Use to specify the scanning area.

Click the (▼) button, and select the size from "A4", "B5", "Letter", "Post card" and "Custom".



- When you select "Custom", specify the scanning area by dragging the preferred area. (Up to 21.6cm x 29.8cm)
- The available values vary depending on the setting for "Resolution" and "Zoom".

Example:

With "Resolution":9600dpi, "Zoom":100%, the maximum scanning area is 4.9cm x 4.9cm.

Reference:

Refer to [Preview Screen](#) for more information on setting the scanning area.

Contents

Index

39

Colour Mode

Setting	Explanation	Possible usage
Full Colour	Scans a document according to the computer's ability to display 16,770,000 colours (each containing 256 individual tones). When using a computer that can display 65,000 colours or more, colours closely resembling those shown in the document will be selected.	Select this option when working with photographs or documents that require professional results.
256 Colour	Scans a document as image data using 256 colours of 16,770,000 available colours of a computer.	Select this option when you send the data through the Internet, as the size of 256 colour data is smaller than full colour data.
Greyscale	Makes a greyscale image. Produces an image like a black and white photograph, in 256 levels.	Select this option when you send a document, which has photograph or illustration such as pamphlets or catalogues, through facsimile.
Mono Diffusion	Scans a document using black and white, creating a half tone image.	Select this option when you scan the originals containing the shaded drawings. This option is also useful when you print out the scanned data in monochrome, because the file size is small.
Mono 2 gradation	Scans a document into black and white using the threshold set on "Image" tab.	Select this option when you scan an image, which consists of characters and line art. This option is also useful when you need to recognise characters to use OCR software.

"Professional" Scan Preferences ("Image" Tab) (part 1)

Scanning

Use this screen to adjust brightness, contrast and threshold settings.

B/W Threshold

Sets the threshold when you select "Mono 2 gradation" for "Colour Mode" on the "Main" tab. Move the slide bar to the left or right to decrease or increase the threshold, or input a figure directly into the setting box (1 - 254). The threshold setting is used to grade an image containing many colours into black and white. Increase the threshold and the areas shown in black will increase. On the other hand, decrease the threshold to increase areas represented in white.



Specify the value for "B/W Threshold" setting to let your OCR software read text data clearly. The text data cannot be recognised correctly when the data includes blurred or faint characters.

Reverse

When using the "Mono Diffusion" or "Mono 2 gradation" colour mode setting, select this function to convert black areas into white, and white areas into black.



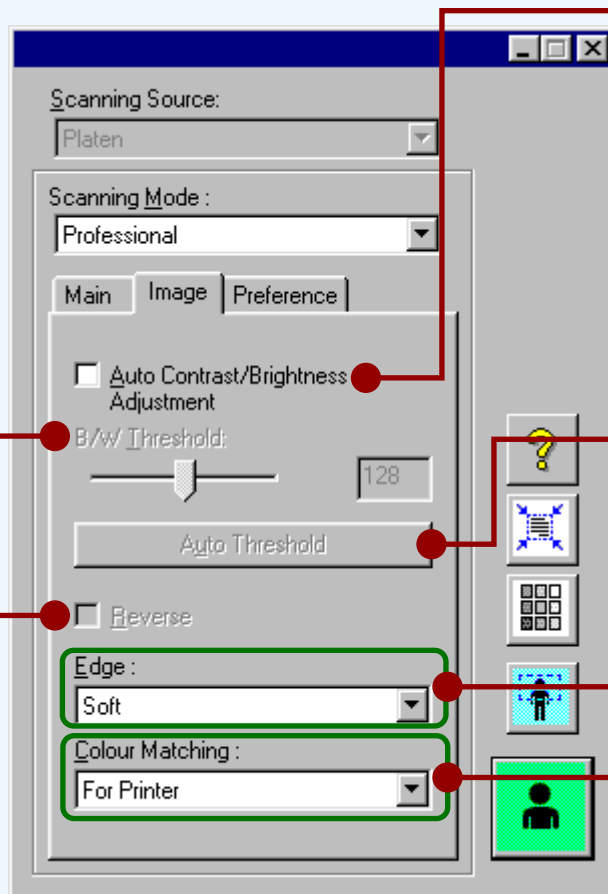
Document



Data after selecting the "Reverse" setting.



This setting can only be used when the "Colour Mode" is set to "Mono Diffusion" or "Mono 2 gradation".



On the above screen, click on options shown in the green boxes to make additional changes.

Auto Contrast/Brightness Adjustment

By checking this function, the brightness and contrast levels used for scanning are automatically adjusted to the most appropriate setting.



- This setting is unavailable when the "Colour Mode" is set to "Mono 2 gradation".
- By displaying the variation preview screen, this setting is automatically turned off (□).

"Auto Threshold" button

When using the "Mono 2 gradation" colour mode to scan a document, click this button and the threshold setting is automatically adjusted to the most appropriate setting. The "B/W Threshold" setting will also change automatically after adjusting this preference.

Edge

Set the method for processing the edge of scanned images.

Colour Matching

Use this option to specify the colour matching method.

Contents

Index

41

Edge

Click the (▼) button to select from the drop-down list.

Setting	Explanation
None	Edge is not emphasised.
Soft	Edge is emphasised slightly.
Sharp	Edge is emphasised strongly.
Normal	Edge is shaded off.

Colour Matching

Click the (▼) button to select from the drop-down list.

Setting	Explanation
For Printer	Sharp's original colour matching function; matches colours with the printer.
For CRT	Sharp's original colour matching function; matches colours displayed on a CRT monitor.
For LCD	Sharp's original colour matching function; matches colours displayed on a LCD monitor.
ICM	Select to utilise Windows standard colour management system.



- This setting is unavailable when the "Colour Mode" option is set to "Mono 2 gradation".
- The "ICM" setting is unavailable with Windows 95.

"Professional" Scan Preferences ("Preference" Tab)

Scanning

Use this screen to view the settings for a displayed preview image, to check changes made to scan preferences, and to save your preferences.

"Load User Settings" button

Click this button to review settings saved using the "Save User Settings" button. Specify a file name in the "Load User Settings" dialog box, and click the "Open" button to review your settings, except for the "Image Area" and "Brightness/Contrast" preferences.

"Save User Settings" button

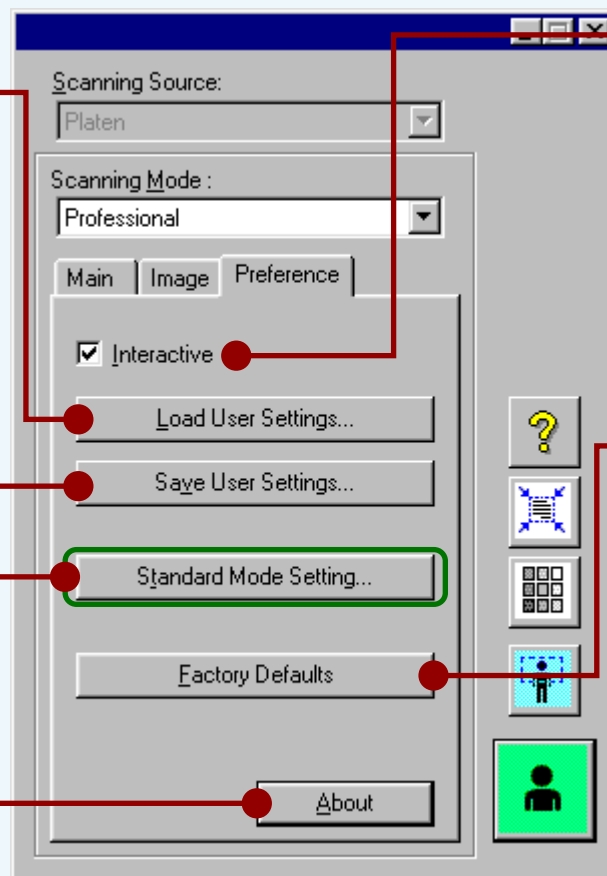
Click to save settings changed on the "Professional" screen. Insert a file name in the "Save User Settings" dialog box, and click the "Save" button to save your settings, except for the "Image Area" and "Brightness/Contrast" preferences.

"Standard Mode Setting" button

Click this button to make changes to any of the "Monitor", "Photo", "FAX" or "OCR" settings shown on the "Standard" screen.

"About" button

Click for details on the version of the SHARP TWAIN driver.



On the above screen, click on options shown in the green boxes to make additional changes.

Interactive

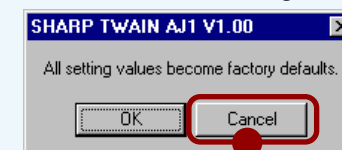
By checking this function, even without previewing the document after changing some settings, the changed settings will be applied to the preview image.



Changes made to the "Resolution", "Image Area", and "Zoom" preferences will not be displayed when previewing an image.

"Factory Defaults" button

Click this button to display the dialog box shown below, and click the "OK" button to return the preferences shown on the "Standard" and "Professional" screens back to the default settings.



Click this button if you do not want to return your preferences to the default settings.

Reference:

For details on the various default settings, refer to [Default Settings for the SHARP TWAIN Driver](#).

Contents

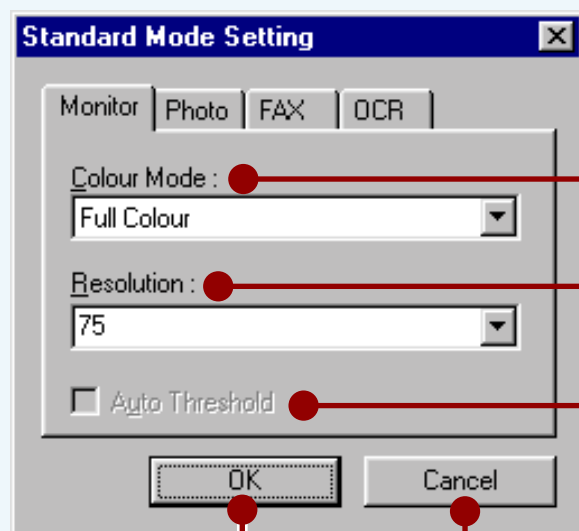
Index

43

"Standard Mode Setting" Dialog Box

Scanning

Click the "Standard Mode Setting" button to display the dialog box shown below. On this dialog, you can change the preferences of four buttons including "Monitor", "Photo", "FAX", and "OCR" on the "Standard" screen. Select the corresponding tab to change the desired preferences.



Colour Mode

Click the (▼) button to select the desired colour mode from "Full Colour", "256 Colour", "Greyscale", "Mono Diffusion", and "Mono 2 gradation".

Reference:

Refer to the [Colour Mode](#) for details on each setting.

Resolution

Click the (▼) button to select the desired resolution from "75", "150", "300", and "600" or input the required figure into the box (50dpi - 600dpi).

Auto Threshold


When "Mono 2 gradation" is selected for "Colour Mode" setting, check this option to automatically set the threshold setting to the most appropriate setting.

"OK" button


Click to save each of the changed settings.

"Cancel" button


Click to close without saving the changed settings.

Click the "Preview" button () to display a preview image on the preview screen. Specify the scanning area on this screen following the steps shown below.



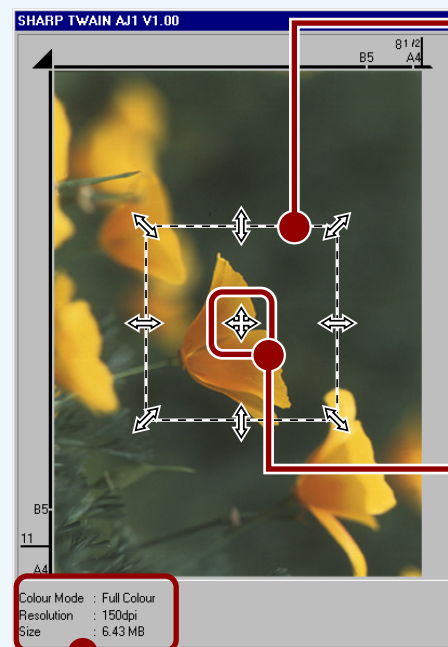
If the variation preview screen is displayed, switch to the preview screen by clicking the "Preview Screen" button ().

Setting the Scanning Area




- 1 Click the "Preview" button () to preview the document.**
A preview image will appear on the preview screen.
- 2 Move the mouse cursor onto the preview image.**
- 3 Click a scan starting point on the image.**
Keep pressing the mouse button when selecting the area you want to scan.
- 4 Drag the cursor to the bottom-right of the screen.**
The area to be scanned will be indicated by a rectangular shaped broken line. This area becomes the scanning area.
- 5 After selecting the scanning area, release the mouse button.**




To cancel the selected area to be scanned, click a spot outside the scanning area or double-click a spot inside the area.



Altering the scanning area

The () symbol will appear when the cursor is placed on the left or right border of the scanning area. On the other hand, the () symbol will appear when the cursor is placed on the top or bottom border of the scanning area. By dragging any of the four corners of the image, a () symbol will appear. The size of the image will be maximized or minimized according to the direction in which the symbol is moved.



Moving the scanning area

The () symbol will appear when the cursor is placed within the scanning area after the area being specified by dragging. Move the image to adjust the scanning area.


Displays the colour mode, resolution, and size of the data.

Variation Preview Screen

Scanning

After clicking the "Preview" button () and previewing the document, click the "Variation Preview Screen" button () to display the variation preview screen. Nine images, which have different variations of brightness and contrast, will be displayed on this screen. By clicking on one of the images, the scan settings will be changed to correspond to the selected image.



- This setting is unavailable when the "Colour Mode" option is set to "Mono 2 gradation".
- After opening the variation preview screen, click the "Preview Screen" button () to display the preview screen.

Brightness/Contrast

The figure shown on the left at the bottom of each individual preview image indicates the brightness level for scanning. The figure on the right displays the contrast level.



Click the most appropriate image from the nine image options displayed for the "Brightness" and "Contrast" levels shown at the bottom of the image to become the settings under which the job is scanned.

Fine

By switching this check box on (☒), the "Brightness" and "Contrast" levels will be adjusted in multiples of five, and when switched off (☐), multiples of twenty.

Displays the colour mode, resolution, and size of the data.

"Default" button

Click this button to return both "Brightness" and "Contrast" levels for the centre image to 0.

Contents

Index

46

Default Settings for the SHARP TWAIN Driver

Scanning

The default settings for the SHARP TWAIN driver are shown below.

"Standard" screen

Setting	Default setting
Monitor	Colour Mode: Full Colour Resolution: 75dpi
Photo	Colour Mode: Full Colour Resolution: 200dpi
FAX	Colour Mode: Greyscale Resolution: 200dpi
OCR	Colour Mode: Mono 2 gradation Resolution: 300dpi Auto Threshold: On

"Professional" screen ("Main" tab)

Setting	Default setting
Colour Mode	Full Colour
Resolution	150dpi
Image Area	Custom
Zoom	100%

"Professional" screen ("Image" tab)

Setting	Default setting
Auto Contrast/Brightness Adjustment	On(<input checked="" type="checkbox"/>)
B/W Threshold	128
Reverse	Off(<input type="checkbox"/>)
Edge	Soft
Colour Matching	For Printer

"Professional" screen ("Preference" tab)

Setting	Default setting
Interactive	On(<input checked="" type="checkbox"/>)
Standard Mode Setting	The Colour Mode and Resolution settings are the same as Monitor, Photo, Fax, and OCR default settings shown on the "Standard" screen. Auto Threshold: On (<input checked="" type="checkbox"/>) (OCR only)

Variation preview screen

Setting	Default setting
Fine	Off(<input type="checkbox"/>)
Brightness/Contrast	0/0

Contents

Index

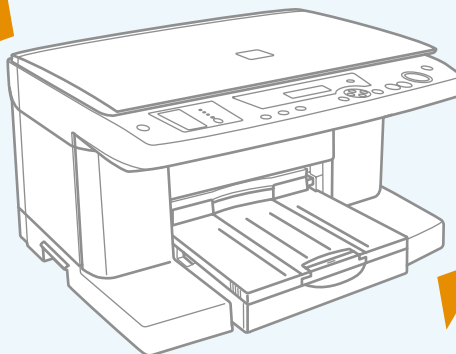
47

You can use your AJ-series unit with two attractive software utilities, "Copy JX2" and "Button Manager". These utilities make this unit more useful to fit various office works.

This page shows the outline of these AJ-series utilities. To show each function, click the icon of the utility you require information on.

Copy JX2

Enables you to make enlarged prints of a part of image and print multiple copies on a sheet.



Button Manager

Enables you to make detailed settings for a scanning job using the "SCAN" button of this unit.



What is Copy JX2?

Copy JX2 is an application, which enables you easy operation of printing scanned images including making enlarged output and making multiple copies onto stickers.

Click the "Start" button, select "Programs", select "SHARP AJ-6000 Series", select "Utility", and then click "Copy JX2 for AJ Series" to display the screen shown below.

Reference: For the detail of the steps for printing, refer to [How to Print](#), [How to Print Multiple Copies](#).

Application icon

Displays the help file, and information on the version of Copy JX2.

"Change Preview" button

Select the preview to be displayed from "[Scan Preview](#)" and "[Print Margin Settings](#)".

Preview area

Specify the clipping area after selecting the "Scan Preview" on the "Change Preview" button shown above. To specify the margin, select "Print Margin Settings" on the same button.

"Watermark" button

"Special Setting" button

Quit button

Click this button to quit Copy JX2.

Information area

General setting area

"Copy and Scan preview stop" button

Click to stop scanning or printing.

"Clear All" button

Returns all settings shown on this screen, and in the printer driver to default settings.

"Start" button

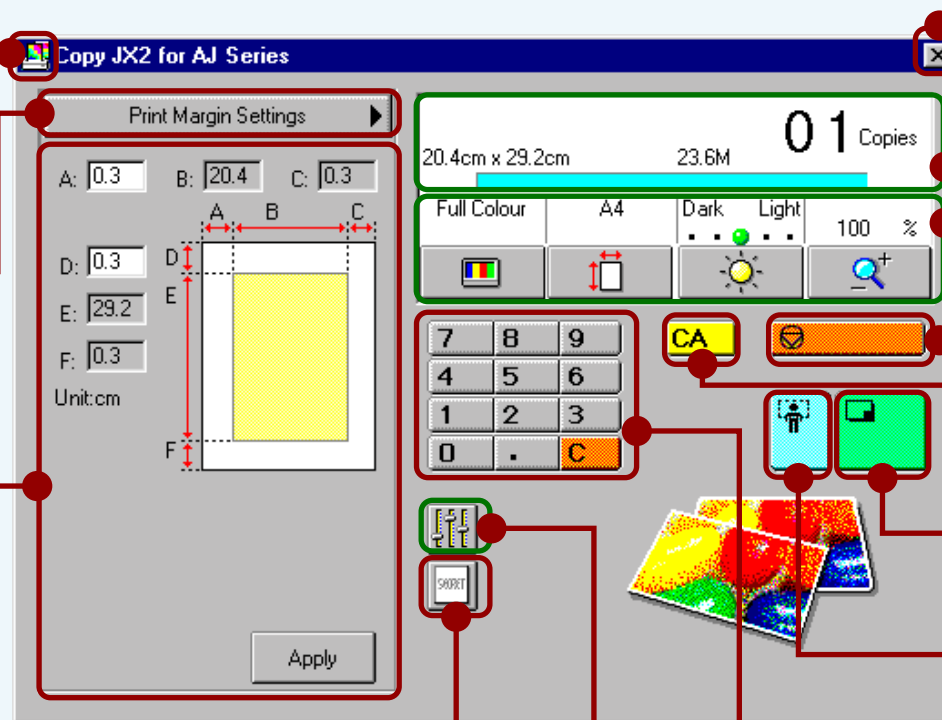
Click to start scanning and printing.

"Scan Preview" button

Previews the document.


"0-9/Period/Number Clear" button

Use to input or clear the number of copies.

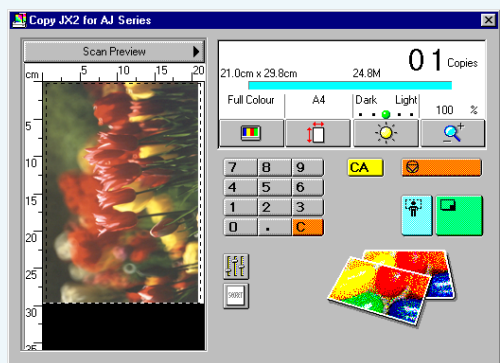


On the above screen, click on options shown in the green boxes to make additional changes.

Follow the steps shown below for basic operation of Copy JX2.


- 1 Place the document on the original table.**
Refer to "MAKING COPIES" in the Setup Guide and Operation Manual for information on how to set a document in the unit.
- 2 Click the "Change Preview" button to display a scan preview, and click the "Scan Preview" button ().**


An image as shown below will be displayed in the preview area.



- 3 Set the clipping area and scanning preferences.**
Reference: Refer to [Scan Preview](#) for the detail of how to set the clipping area by the mouse, or to [General Setting](#) for the detail of how to set basic scanning preferences.

To set more detailed preferences, follow steps 1 and 2 shown below.

- 1 To setup more detailed preferences, click the "Special Setting" button ().**
Reference: [Special Setting](#)

- 2 If you want to insert a watermark, click the "Watermark" button ().**
When the watermark setting dialog box in the printer driver opens, specify your choice of required preferences.

Reference: Refer to the ["Watermark" Tab Settings](#) for details on the Watermark setting dialog box.



Click the "Clear All" button to return all settings to the default settings.

- 4 Click the "Change Preview" button to specify the desired print position on the output.**
Reference: [Print Margin Settings](#)

5

Set the number of copies to print.

Click the "Copies" on the information area, and use the numbered buttons (0-9), or your computer's keyboard to input the number of copies required. To change the set number of copies, click the "Number Clear" button and enter the correct number (1 - 50 copies).

6

Click the "Start" button ().

The printer settings dialog box will open. Set the print conditions as required. Click the "OK" button. Printing will be started after scanning the document.

Reference: Refer to [Printer Properties](#) for the detail of the printer settings dialog box.



If you want to cancel a print job, click the "Copy and Scan preview stop" button, or press the [Esc] key. If you have already sent the print data to the printer driver, follow the printer driver instructions to cancel print job.

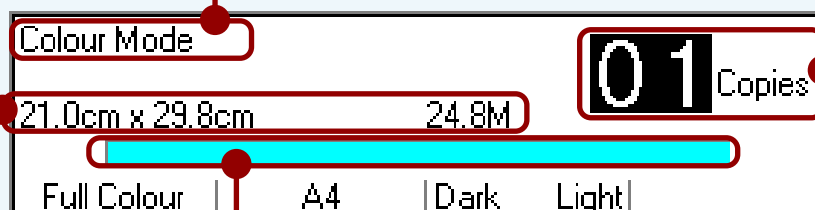
Contents of the Information Area

Information

Displays name of the portion on which your mouse pointer is placed.

Image Size Information

Displays the size of clipping area specified the preview image.



Copies

Set the number of copies to be printed here. Default setting is "01".

Indicates the procedure of scanning process and data transfer to the printer driver with figures of 0% - 100%.

How to Print Multiple Copies (part 1)

Copy JX2

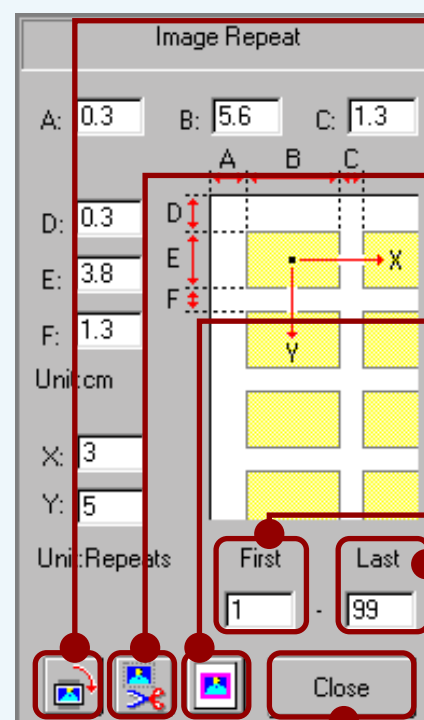
You can print multiple copies of the same scanned image onto a single sheet. Follow the steps shown below after running the Copy JX2 utility.

1 After performing steps 1 to 3 in [How to Print](#), click the "Special Setting" button () to access the detailed settings. Click the "Image Repeat" button (), and select "On" from the drop-down list.

2 Set the Image repeat preferences.

Set the preferences shown below to suit the type of paper.

Setting	Default setting
A: Left margin	Printer driver's left margin
B: Frame width	5.6cm (2.2")
C: Space between each image (width)	1.3cm (0.5")
D: Top margin	Printer driver's top margin
E: Frame height	3.8cm (1.5")
F: Space between each image (height)	1.3cm (0.5")
X: Number of landscape images	3 pages
Y: Number of portrait images	5 pages



"Rotate" button

Click the button to rotate the image 90 degrees.

"Cutting Lines" button

Click this button to print out the frame highlighted by the line.

"Background Colour" button

Click this button to add a background colour to the printed frame. Click the button to display the "Color" dialog box, and set the colour.

First Frame (1-99)

Last Frame (1-99)

If you intend to print only specific frames, input the appropriate frame number into the "First Frame" and "Last Frame".

"Close" button

Click to close the "Image Repeat" screen.

3 After setting your preferences, click the "Close" button.

The "Image Repeat" settings screen will close, and the previously shown preview screen will appear.



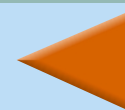
Note

To show the "Image Repeat" settings screen again, click the "Image Repeat" button, and then select "On" from its drop-down list.

4 Click the "Start" button ().

The printer settings dialog box will open. Set the print conditions as required.

Click the "OK" button. Printing will be started after scanning the document.



The preview image can be displayed after setting your original. Click the "Change Preview" button, select "Scan Preview", and then click the "Scan Preview" button (🖨️). On this screen, you can specify the clipping area. Follow the steps shown below to specify the clipping area.



By setting the clipping area, the "Scan Size" setting will revert to the "Custom". The settings of the "Zoom Mode" and the "Page Layout" will return to the default settings.

Setting the Clipping Area

- 1 Click the "Scan Preview" button (🖨️) to preview the document.

A preview image will appear on the preview screen.

- 2 Move the mouse cursor onto the preview image.

- 3 Click a scan starting point on the image.

Keep pressing the mouse button when selecting the area you want to scan.

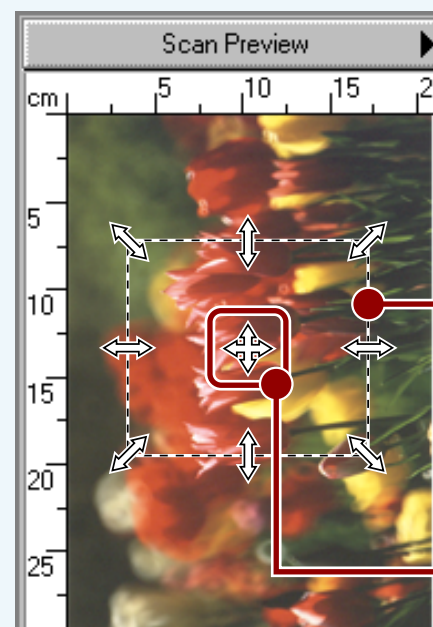
- 4 Drag the cursor to the bottom-right of the screen.

The clipping area will be indicated by a rectangular shaped broken line. This area becomes the clipping area.

- 5 After selecting the clipping area, release the mouse button.



To cancel the clipping area, double-click a spot on the preview image.



Enlarging/Reducing the Clipping Area

The (↔) symbol will appear when the cursor is placed on the left or right border of the clipping area. On the other hand, the (↑↓) symbol will appear when the cursor is placed on the top or bottom border of the clipping area. By dragging any of the four corners of the image, a (↖↗↘↙) symbol will appear. The size of the image will be enlarged or reduced according to the direction in which the symbol is moved.

Moving the Clipping Area

The (⬮⬭⬰⬱) symbol will appear when the cursor is placed within the clipping area. To move the clipping area, press and hold the mouse button, relocate and then release the mouse button.

Print Margin Settings

Copy JX2

On the "Print Margin Settings" screen, you can setup the image position on the output. Click the "Change Preview" button to select desired print margin settings. Follow the steps below to set the print margins.

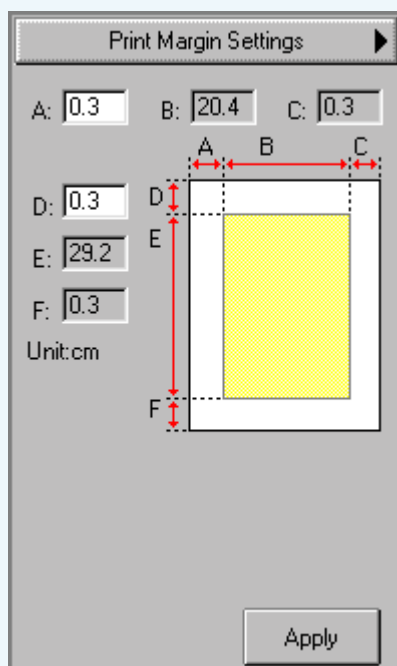
1 Enter an appropriate figure in the "Left Margin"(A) box to specify both left and right margins.

The value for the "Right Margin"(C) is automatically decided by entering a figure in A.

2 Enter an appropriate figure in the "Top Margin"(D) box to specify both top and bottom margins.

The value for the "Bottom Margin"(F) is automatically decided by entering a figure in D.

3 After entering appropriate figures in A and D, click the "Apply" button.

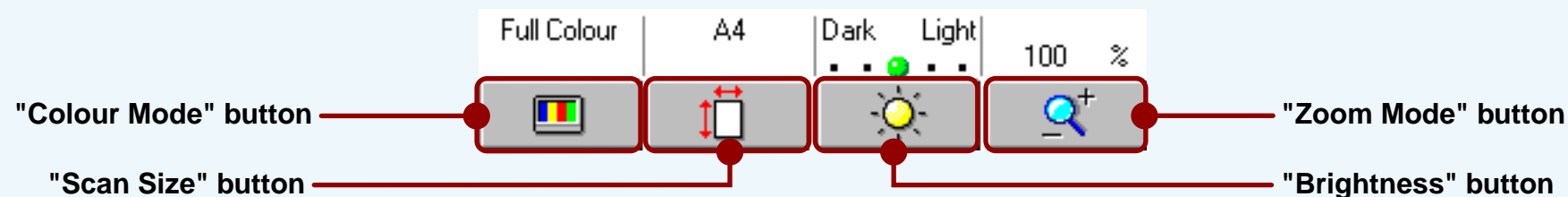


Specify values for margins within the quality guaranteed area to ensure your print quality.



- The paper size indicated on the "Print Margin Settings" screen is the size which has been selected through the printer driver.
- By changing the print position, the setting of "Page Layout" will return to "Custom".

Set basic scanning preferences using the four buttons described below.



"Colour Mode" button

Click the "Colour Mode" button to select the colour mode from the drop-down list.

Setting	Contents
Full Colour	The computer can display 16,770,000 colours (each containing 256 individual tones) (Default setting)
Greyscale	Monochrome (each containing 256 individual tones)
B & W	Black and white

"Scan Size" button

Click the "Scan Size" button, and select the scan area from the drop-down list. Select the size from "A5", "A4" (Default setting), "B5", "Letter" and "Japanese HAGAKI". When you set the clipping area by dragging the desired area on the preview image, "Custom" is automatically selected.

"Brightness" button

Click the "Brightness" button to select the brightness of the scan area using the drop-down list. Brightness setting is also available by clicking one of the five buttons indicating the level of brightness located above this button. Select the desired brightness from "Darkest", "Dark", "Normal" (Default setting), "Light", "Lightest" settings.


"Zoom Mode" button

Click the "Zoom Mode" button to set the reduction/enlargement ratio using the drop-down list.

Setting	Contents
50% 70% A4 -> A5 86% A4 -> B5 100% (Default setting) 115% B5 -> A4 141% A5 -> A4 200%	Fixed percentage
Zoom	Use the numbered buttons, or your computer's keyboard to input the ratio required. (1% - 400%)
Auto Page Fit	Automatically adjusts the scan size of the image to fit the size of print paper.

Special Setting (part 1)

Copy JX2

Click the "Special Setting" button () to display the screen shown below.



On the above screen, click on options shown in the green boxes to make additional changes.

"Scan Quality" button

Click the "Scan Quality" button to set the scan resolution using the drop-down list.

Setting	Contents
Fast	75dpi
Normal	300dpi (Default setting)
Best	600dpi

"Page Layout" button

Click the "Page Layout" button to set the print position using the drop-down list.

Setting	Contents
Normal	Prints image at top-left of the page.
Centring	Prints image in the centre of the page. (Default setting)
Custom	To be selected automatically by setting the print position at the "Print Margin Settings" screen.

"Optional scan source" button

For this model, this setting is fixed to "Platen".

"Save/Load settings" button

Use to save or load saved settings using the Copy JX2. Click the "Save/Load settings" button to select from "Save Settings", or "Load Settings" from the drop-down list.

Setting	Contents
Save Settings	Select to save the Copy JX2 settings. Enter a file name using the save settings dialog box, and click the "Save" button to save all settings except the image data and printer driver settings.
Load Settings	Select to load saved settings. Enter the name of the file you require into the load settings dialog box, and click the "Open" button to load the previously saved settings.

"Image Repeat" button

Click the "Image Repeat" button and activate or deactivate the print multiple copies function using the drop-down list.

Setting	Contents
On	Activates the print multiple copies function.
Off	Deactivates the print multiple copies function. (Default setting)

"Printer Settings" button

Click the "Printer Settings" button to display the print setup dialog box. Confirm the "SHARP AJ-6010" is selected as a printer to be used, click the "Properties" button, and after setting the necessary items, click "OK" button to close the dialog box. For the detail of printer setting, refer to [Printer Properties](#).

What is Button Manager?

Button Manager is a utility software to link scanning functions to "SCAN" button on the unit. This software enables you to set scanning functions to five different scan menus, which will be linked the "SCAN" button on the unit.

Reference: Refer to "USING THIS UNIT WITH YOUR COMPUTER" in the Setup Guide and Operation Manual for details on accessing the scan menu from the unit.

By default, the following functions are set for each menu.

Scan menu	Function	Explanation
ScanMenu 1	File	Starts Sharpdesk automatically, and then sends scanned image to the desktop of Sharpdesk.
ScanMenu 2	Email	Starts your Email software automatically, and then sends scanned image to the Email software as an attachment.
ScanMenu 3	FAX	Starts your PC-FAX software automatically, and then sends scanned image to the PC-FAX software.
ScanMenu 4	OCR	Starts your OCR software automatically, and then sends scanned image to the OCR software.
ScanMenu 5	Word	Starts Microsoft Word automatically, and then sends scanned image to Microsoft Word.
	Application *	Sends scanned image to the selected application.

* You can select five functions out of six listed above as scan menus.
The "Application" function is not selected as the default setting.

You can specify and change your five scan menu options from six functions listed above. Refer to [Button Manager Settings](#) to specify and change the scan menu options.

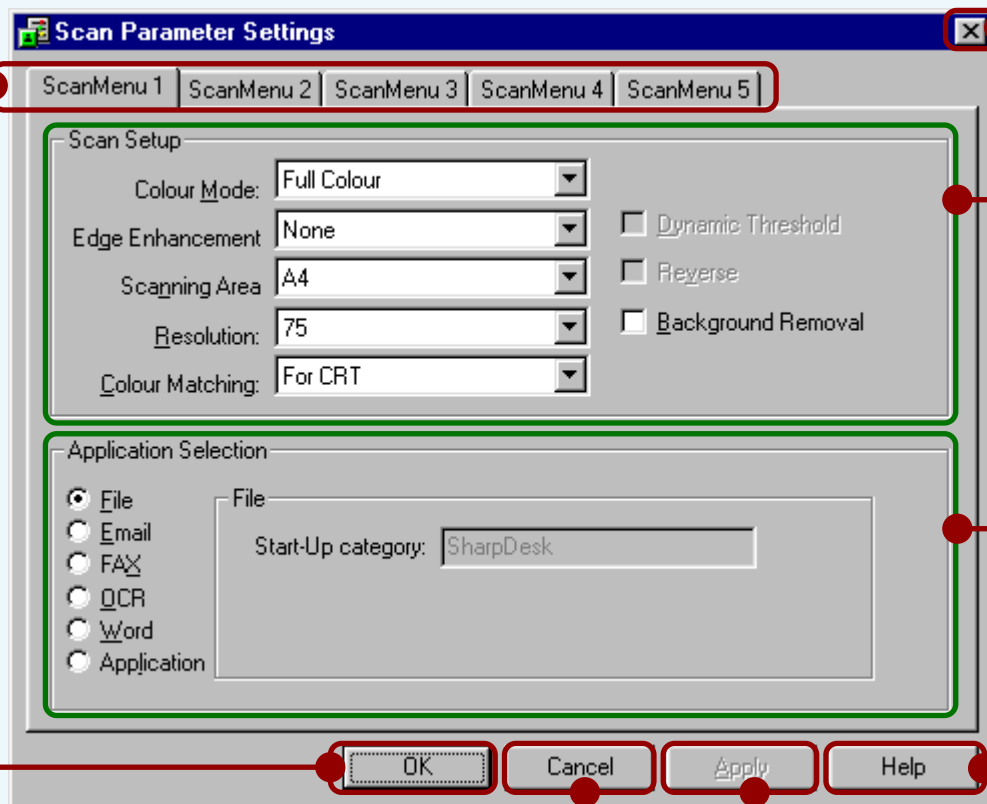


Close the source application before using the "SCAN" button on the unit.

Button Manager Functions

The functions of Button Manager are shown below.

Tab
Click to set scan menu options.



Quit button
Click this button to quit the Button Manager.

"Scan Setup" area
Set the scan conditions.



Some applications may limit your choice of settings.

"Application Selection" area
Select the start-up application here.

"OK" button
Click to save your settings, and exit the dialog box.

"Cancel" button
Click this button to exit the dialog box without making any changes to the settings.


On the above screen, click on options shown in the green boxes to make additional changes.

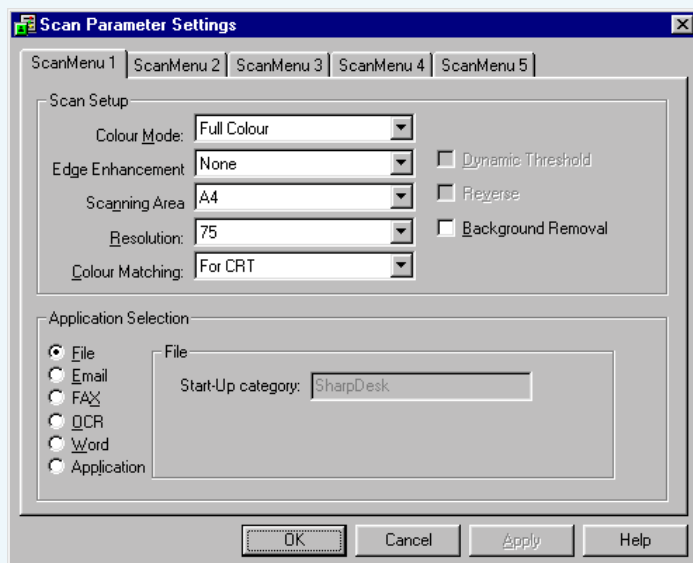
"Help" button
Click this button to display the help file for the Button Manager.

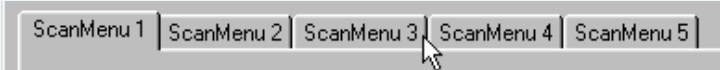
"Apply" button
Click to save your settings without closing the dialog box.

Button Manager Settings

After being installed, the Button Manager keeps active under the Windows operating system. Follow the steps shown below to set scan options as you like.

- 1 Right-click the Button Manager icon () on the task bar.
- 2 Select "Settings" from the displayed pop-up menu.
The setting screen of the Button Manager will open.



- 3 Click the tab of the scan menu you want to set up.
The image shows a row of five tabs labeled 'ScanMenu 1', 'ScanMenu 2', 'ScanMenu 3', 'ScanMenu 4', and 'ScanMenu 5'. A mouse cursor is pointing at 'ScanMenu 3'.
- 4 Set up the start-up application in the "Application Selection" area.
Reference: ["Application Selection" Settings](#)
- 5 Set up the "Colour Mode", "Edge Enhancement" and other scan settings in the "Scan Setup" area.
Reference: ["Scan Setup" Settings](#)
- 6 Click the "OK" button.

You have completed the settings.



The "SCAN" button on this unit is disabled when Button Manager is inactive.

"Scan Setup" Settings

You can setup scanning preferences for each scan menu at the "Scan Setup" area.

Reference: The default settings vary depending on the specified functions, which have been selected from "File", "Email", "Fax" and so on at the "Application Selection" area. Refer to [Default Setting for Each Function](#) for the details on the default settings.

Edge Enhancement

Set the scan quality of the outline of the image here. Click the (▼) button to select from "None", "Soft", "Sharp", and "Normal".

Note When the colour mode is set to "Monochrome", this option is unavailable.

Scanning Area

Use to set the size of the image to be scanned. Click the (▼) button to select from "A4", "B5", and "Letter".

Resolution

Set the scan resolution quality here. Click the (▼) button to select from "75", "100", "150", "200", "300", "400", and "600".

Colour Matching

Use to correctly match the colours of the image to be scanned. Click the (▼) button to select from "For Printer", "For CRT", "For LCD", and "ICM".

Note

- When the colour mode is set to "Monochrome", this option is unavailable.
- The "ICM" setting is unavailable with Windows 95.

Colour Mode

Use to select the scan colour mode. Click the (▼) button to select from "Monochrome", "Greyscale", "256 Colour", and "Full Colour".

Note Only "Monochrome" is available when "OCR" is selected in the "Application Selection" area.

Dynamic Threshold

When the colour mode is set to "Monochrome", and this option is checked on (☑), the unit will process the text and image data separately, and the threshold is automatically selected to the most appropriate quality setting. If not checked on, the threshold is set to "128".

Reverse

When the colour mode is set to "Monochrome", and this option is checked on (☑), the black and white tone is reversed.

Background Removal

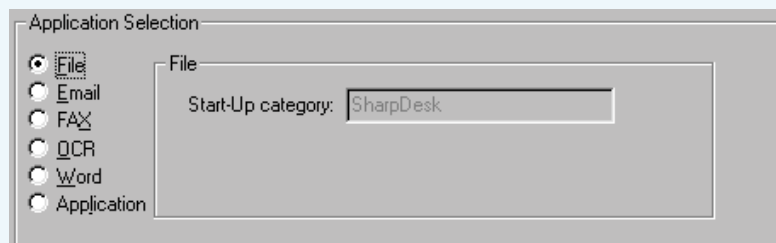
Check this option on (☑) to automatically remove the background of the image to be scanned.

The screenshot shows the "Scan Setup" dialog box with the following settings: Colour Mode: Full Colour, Edge Enhancement: None, Scanning Area: A4, Resolution: 75, Colour Matching: For CRT. On the right side, there are three checkboxes: Dynamic Threshold (unchecked), Reverse (unchecked), and Background Removal (unchecked). Red lines connect the descriptive text blocks to their corresponding settings in the dialog box.

"Application Selection" Settings (part 1)

Use the "Application Selection" area to specify the start-up application starting from the scan menu.

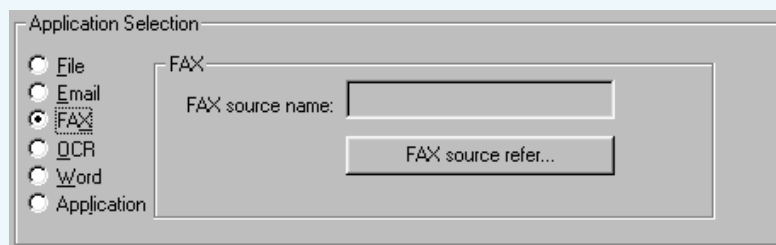
"File" settings



Start-Up category

"SharpDesk" will be specified automatically. Your scanned image is saved as a TIFF file on Sharpdesk. The file name is created automatically.

"FAX" settings



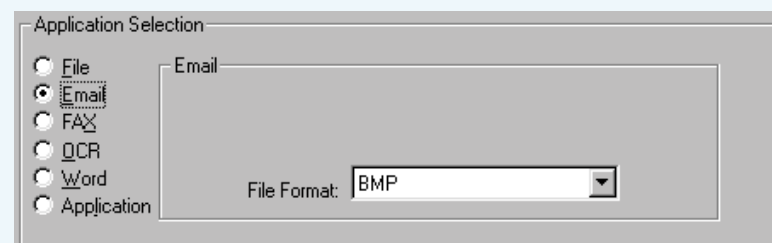
FAX source name

The name of the FAX software you are using will be displayed.

"FAX source refer" button

By clicking this button, "FAX Source" dialog box will appear. Select the FAX software you intend to use, and click "OK" button. The selected item will appear in the "FAX source name" box. The file name is created automatically.

"Email" settings



File Format

Select the format for the scanned image here. Click the (▼) button to select from "BMP" and "TIFF". The file name is created automatically.

To specify the file format on your Mail application:

To open your MAPI-compliant Mail application automatically by selecting "Email" setting, set the necessary preferences on your Mail application beforehand.

For example, if you use Outlook Express on your computer, select "Options" from "Tools" menu on the menu bar, select "General" tab, and then specify required settings. For the detail, refer to the operation manual or the help file of your Mail application.

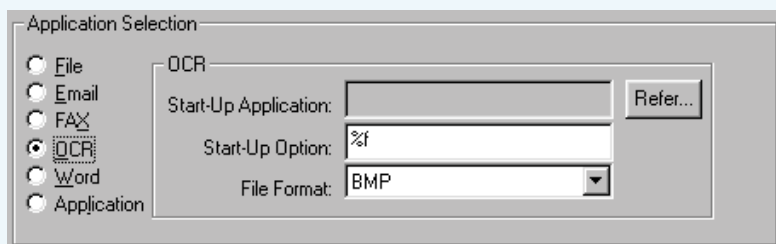


If any MAPI-compliant mail application, for example, Outlook, Outlook Express, Netscape Messenger, or Eudora, has not been installed, you cannot make the "Email" setting.

"Application Selection" Settings (part 2)

Button Manager

"OCR" settings



Start-Up Application

Displays the path for your OCR software.

"Refer" button

Select your OCR software. Click the "Refer" button to open a dialog box, on which you can select the OCR software.

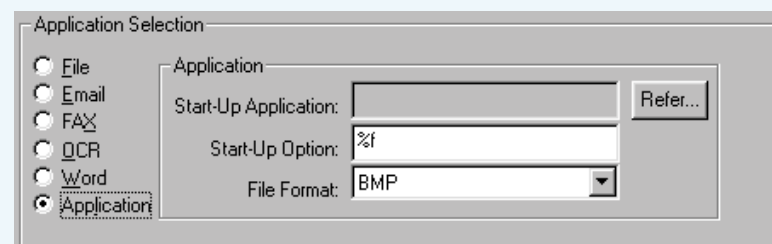
Start-Up Option

Specify initial settings for the selected OCR software.

File Format

Select the format for the scanned image here. Click the (▼) button to select from "BMP" and "TIFF". The file name is created automatically.

"Application" settings



Start-Up Application

Displays the path for the selected application.

"Refer" button

Select the application. Click the "Refer" button to open a dialog box, on which you can select the application.

Start-Up Option

Specify initial settings for the selected application.

File Format

Select the format for the scanned image here. Click the (▼) button to select from "BMP" and "TIFF". The file name is created automatically.

"Word" settings

The setting options for "Word" do not appear.



With computers which have been installed with more than one version of Microsoft Word, when you try to open Microsoft Word using "SCAN" button, your computer will automatically activate the version which was used previously. (Microsoft Word 95 is not available.)

Default Setting for Each Function

The default settings for each of the functions in the "Scan Setup" area are shown below.

Function	Colour Mode	Edge Enhancement	Scanning Area	Resolution	Colour Matching
File	Full Colour	None	A4	75dpi	For CRT
Email	Full Colour	None	A4	75dpi	For CRT
FAX	Greyscale	None	A4	200dpi	For CRT
OCR	Monochrome	Not available	A4	300dpi	Not available
Word	Full Colour	None	A4	75dpi	For CRT
Application	Full Colour	None	A4	75dpi	For CRT

Function	Dynamic Threshold	Reverse	Background Removal
File	Not available	Not available	Off(<input type="checkbox"/>)
Email	Not available	Not available	Off(<input type="checkbox"/>)
FAX	Not available	Not available	Off(<input type="checkbox"/>)
OCR	On(<input checked="" type="checkbox"/>)	Off(<input type="checkbox"/>)	On(<input checked="" type="checkbox"/>)
Word	Not available	Not available	Off(<input type="checkbox"/>)
Application	Not available	Not available	Off(<input type="checkbox"/>)

For each of the situations shown below, check which colour ink tank is low on ink before changing the tank. Click the "Maintenance" tab of the print status window to open the "Maintenance" dialog box. Use this dialog box to check the colour of the ink tank you should change.

Reference: [Changing the Ink Tank](#)

The "Out of ink" error message is displayed on the print status window.

If the **"Out of ink"** error message appears on the print status window, more than two of the ink tanks are out of ink. Check the ink indicators to find the empty ones, and then immediately replace them with new ones. If the error message indicates the colour of the empty ink tank (see sample message below), replace the ink tank indicated in the message.

"Out of ink - xxxx" - One of the ink colours including cyan, yellow, magenta, and black is displayed as "xxxx" in this message.

The "Ink low" error message is displayed on the print status window.

When an ink tank is near empty, the status icon on the print status window is changed into (⚠). If the **"Ink low"** error message appears, more than two of the ink tanks are near empty. Check the ink indicators to find the ones which are near empty, and replace them with new ones as soon as possible. If the error message indicates the colour of the near-empty ink tank (see sample message below), replace the ink tank indicated in the message.

"Ink low - xxxx" - One of the ink colours including cyan, yellow, magenta, and black is displayed as "xxxx" in this message.

Changing the Ink Tank (part 1)

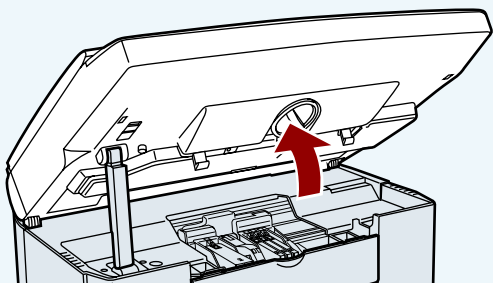
Maintenance

Ensure the unit is turned on before following the steps below on how to change the ink tank.



During ink tank replacement, if the front cover is left open for more than 8 minutes, the carriage will automatically return to its home position.

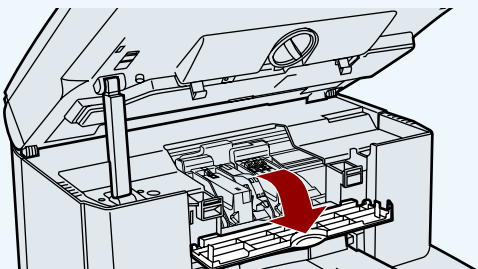
- 1 Turn the front cover locking knob with one hand and lift the front cover with the other hand, while keeping the knob in the unlocked position.**
The carriage will automatically move to the centre position.
Reference: See "INSTALLING THE PRINT HEADS AND THE INK TANKS" in the Setup Guide and Operation Manual for more detail on how to open the front cover.



Warning

Do not put your hands into the unit until the carriage stops at the centre position. Doing so may hurt your hands. Do not try to move the carriage manually by force, you may damage the unit.

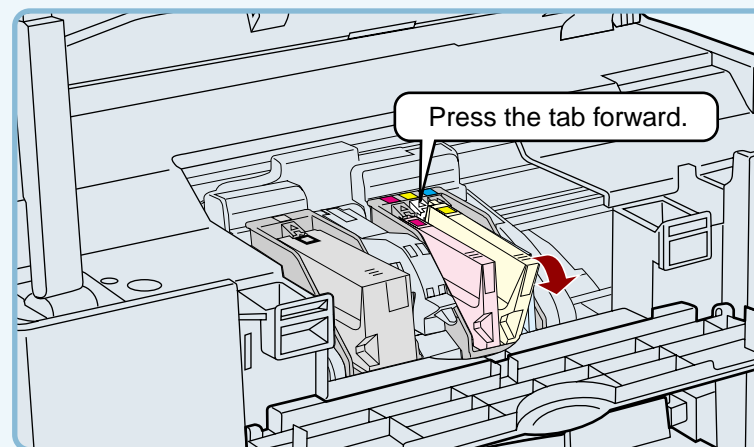
- 2 Open the maintenance cover.**



3

Remove the old ink tank.

While pressing the tab forward, remove the ink tank.



Example: Releasing the yellow ink



Note

Do not lift the print head latch to replace the ink tank.

Contents

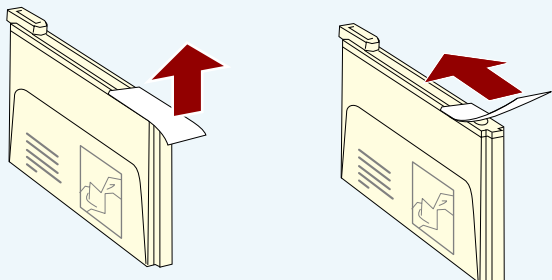
Index

67

Changing the Ink Tank (part 2)

Maintenance

- 4 Unpack the ink tank from its protective wrapping and slowly remove the tape.



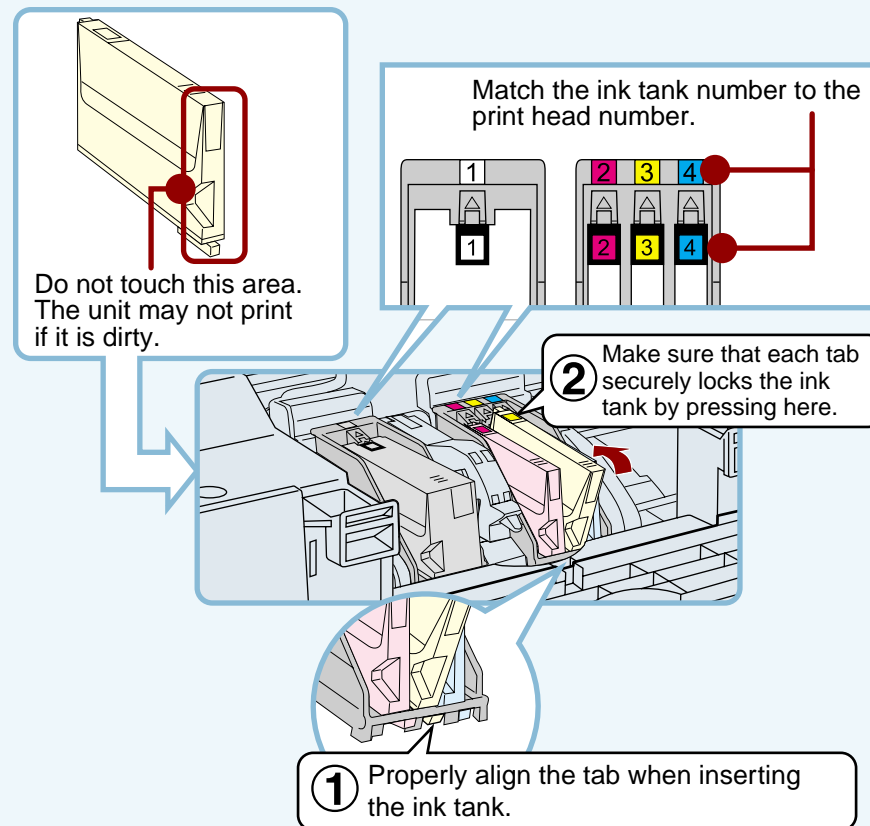
Example: Removing the tape of the yellow ink tank



Caution

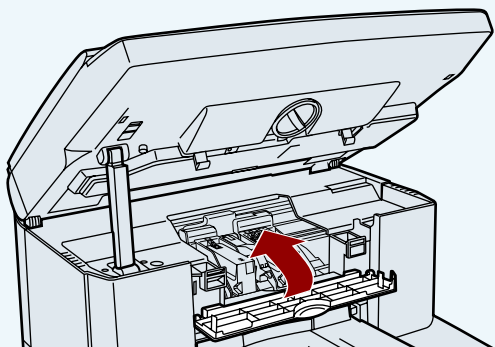
- Hold the tank upright when removing the tape. Do not touch the uncovered opening on the ink tank, as ink will get on your hands.
- Ensure that there are no pieces of tape remaining on the ink tank.

- 5 Turn the ink upside down, and then immediately insert it to the print head of corresponding number.

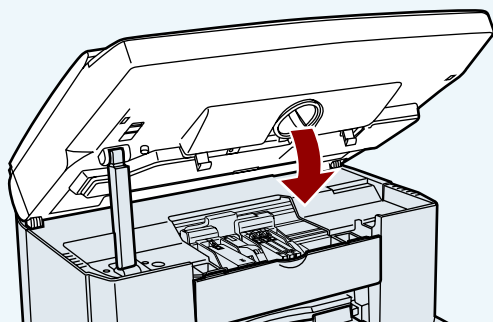


Example: Inserting the yellow ink tank

- 6 Close the maintenance cover.

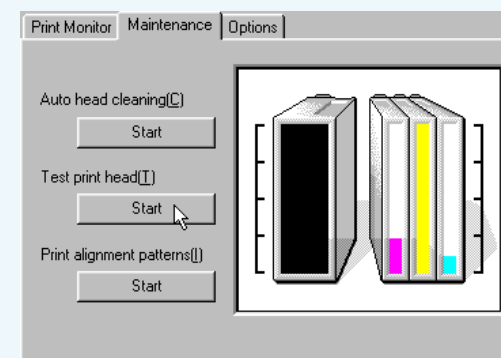


- 7 Close the front cover.
Press both edges of the front cover with both of your hands until it locks.



- 8 Confirm on the display panel that ink tanks have been securely set to the unit.
If a message appears, which lets you know that any of ink tanks have not been installed in their correct positions, open the front cover and confirm that all the ink tanks are properly inserted.

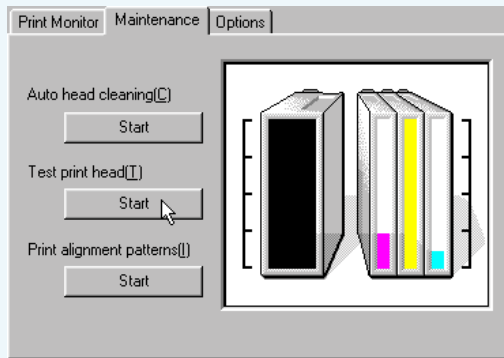
- 9 Follow the message on the operation panel to complete the ink tank replacement.
Reference: For more detail, refer to "THE INK TANK" in the Setup Guide and Operation Manual.
- 10 Print a test page to check if the unit prints properly.
Click the "Start" button of "Test print head" found in the "Maintenance" dialog box of the print status window to print out a test page.
If print quality is poor, return to step 5 and follow the procedures once more.



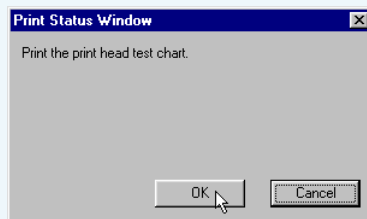
If print quality is poor after correctly inserting the ink tank, clean the Print Head.

If you are not satisfied with the print quality, print a test page following the steps shown below.

- 1 **Make sure that A4 sized paper is set in the tray.**
- 2 **Click the "Advanced" tab in the properties dialog box, and then click "Maintenance" button.**
- 3 **Click the "Start" button of "Test print head".**



- 4 **Click the "OK" button.**
A test page will be printed.

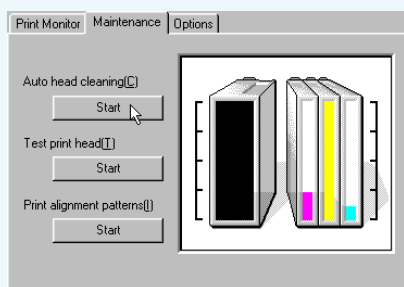


- 5 **Check the result of the test page.**
If the print quality is poor, go to the next step.
- 6 **Click the "Start" button of "Auto head cleaning" to clean the print heads.**
If you cannot get a good result printing a test page even after cleaning the print head five times, change the print head.
[Reference: Cleaning the Print Head](#)
- 7 **Change the print head.**
Replace the black print head if white lines appear in the black portion of your test page. If you find white lines in portions of colours except black, replace the colour print head.
[Reference: Changing the Print Head](#)

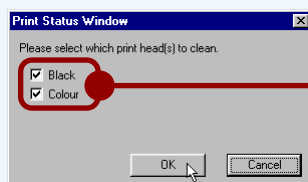
If the test page from "Test print head" is faint or uneven, confirm that you are printing on the correct side of the paper, and the driver setting and ink levels are correct. If these items are OK, then follow the steps below to clean the print head.

1 Click the "Advanced" tab in the properties dialog box, and then click "Maintenance" button.

2 Click the "Start" button of "Auto head cleaning".



3 Click the "OK" button to clean both the black print head and the colour print head.



You can save the ink consumption by checking the box for the print head which has poorer print result.

Cleaning the print head will begin.

4 Click the "Start" button of "Test print head", and then click "OK" button on the confirmation dialog box to print a test page.

5 Check if the test page was printed cleanly.
If print quality is poor, return to step 2 and follow the procedures again.



Do not clean the print head more than five times.
Excessive cleaning of the print head wastes ink.

Reference: If print quality is still poor, refer to [Changing the Print Head](#).



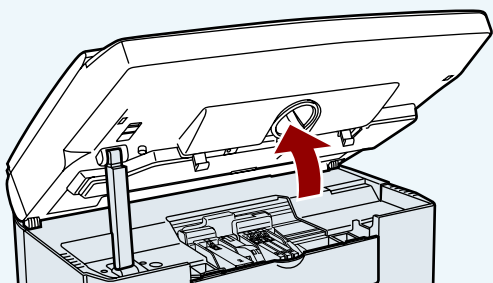
The unit cannot perform other operations while cleaning the print head.

Changing the Print Head (part 1)

Maintenance

If print quality is poor, after cleaning the print head 5 times, the print head may be worn. Ensure the unit is turned on before following the steps below on how to change the print head.

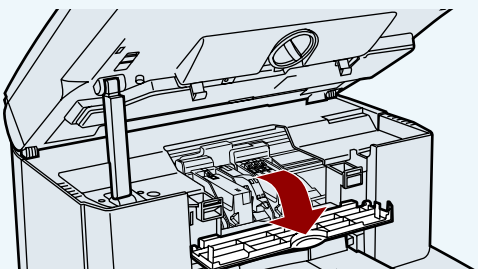
- 1 Turn the front cover locking knob with one hand and lift the front cover with the other hand, while keeping the knob in the unlocked position.**
The carriage will automatically move to the centre position.
Reference: See "INSTALLING THE PRINT HEADS AND THE INK TANKS" in the Setup Guide and Operation Manual for more detail on how to open the front cover.



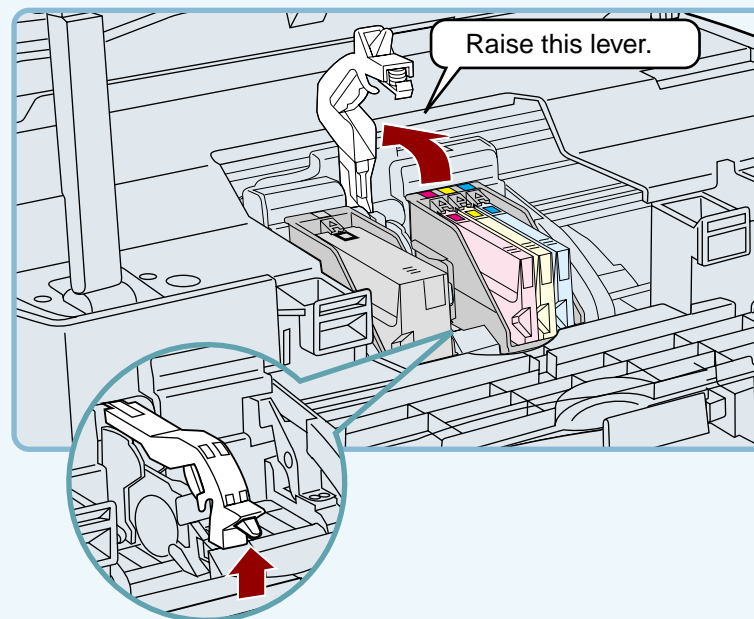
Warning

Do not put your hands into the unit until the carriage stops at the centre position. Doing so may hurt your hands. Do not try to move the carriage manually by force, you may damage the unit.

- 2 Open the maintenance cover.**



- 3 Raise the print head latch.**
Raise the latch until it comes to a complete halt.



Contents

Index

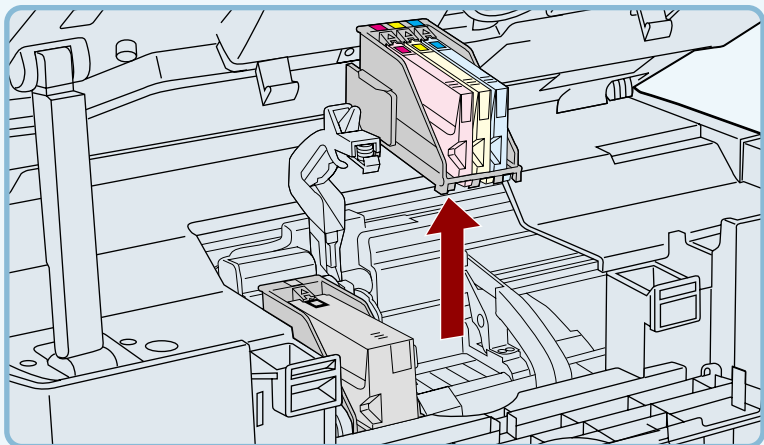
72

Changing the Print Head (part 2)

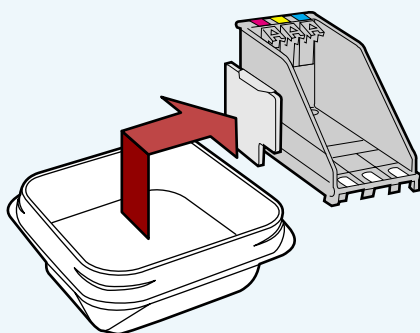
Maintenance

- 4** Remove the old black or colour print head with the ink tank(s) still inserted.

Lift it straight up to remove.



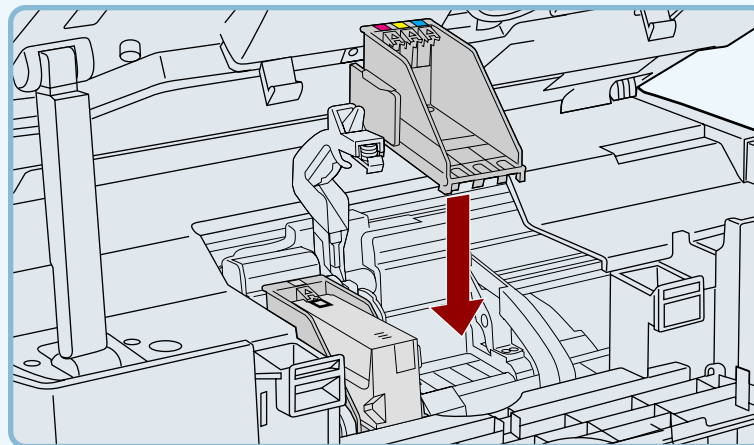
- 5** Remove the new print head from its protective case.



Caution

Do not touch the metal portion of the print head. Doing so may lead to improper printing or damage to the unit.

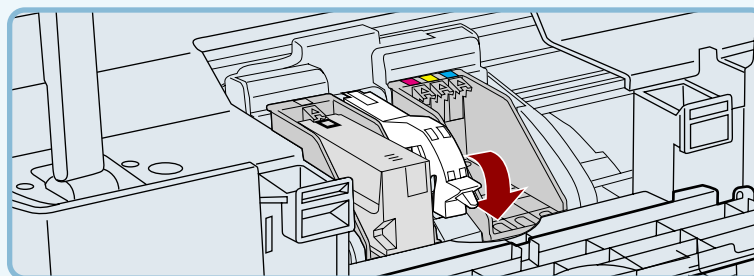
- 6** Insert the new print head.



Caution

Be careful not to damage the print head. If any part is damaged, the unit may not work properly.

- 7** Lower the print head latch.
- Lower the latch until it is properly fixed into position.



Contents

Index

73

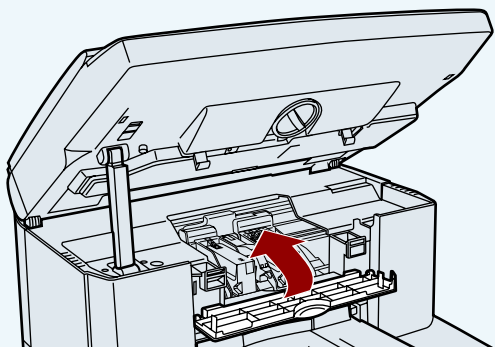
Changing the Print Head (part 3)

Maintenance

- 8** Remove the ink tank(s) from the old print head and insert into the new print head.

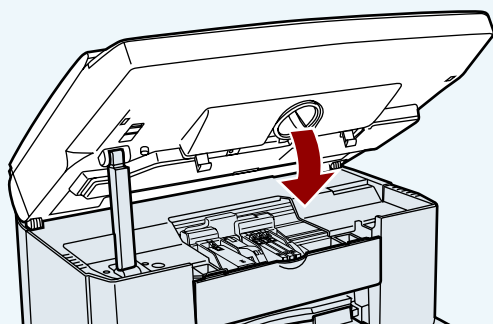
Reference: For details on inserting and removing the ink tank, see [Changing the Ink Tank](#).

- 9** Close the maintenance cover.



- 10** Close the front cover.

Press both edges of the front cover with both of your hands until it locks.



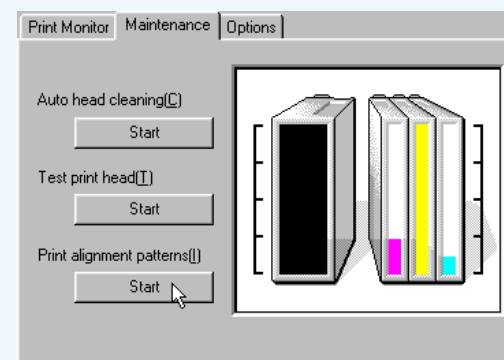
To keep good print quality, keep all the ink tanks installed to the corresponding print head.

- 11** Follow the message on the operation panel to complete the ink tank replacement.

Reference: For more detail, refer to "THE PRINT HEAD" in the Setup Guide and Operation Manual.

- 12** To maintain print quality after changing the print head, always align the print head.

Click the "Start" button of "Print alignment patterns" located in the "Maintenance" dialog box of the print status window to align the print head.



Reference: [Aligning the Print Head](#)

- 13** Print a test page by clicking the "Start" button of "Test print head".

Make sure that the test page was printed clearly.

Reference: [Test Print Head](#)

Contents

Index

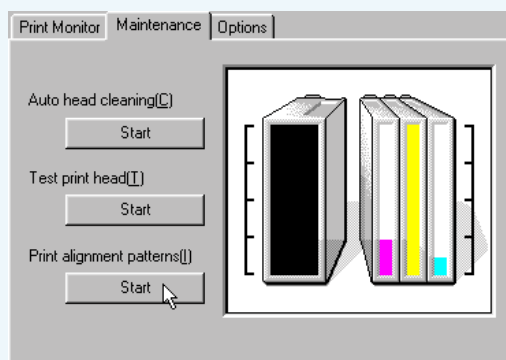
74

Aligning the Print Head (part 1)

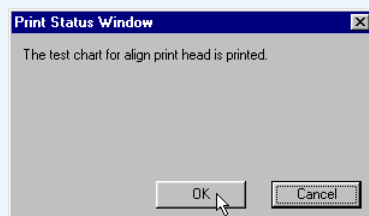
Maintenance

Align the print head after installing or changing the print head, or if printed lines are not straight, or have blank spaces. Follow the steps below to align the print head.

- 1 Make sure that A4 sized paper is set in the tray.
- 2 Click the "Advanced" tab in the properties dialog box, and then click "Maintenance" button.
- 3 Click the "Start" button of "Print alignment patterns".

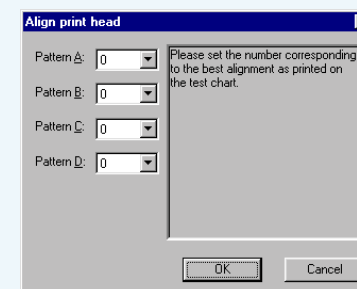


- 4 Click the "OK" button.

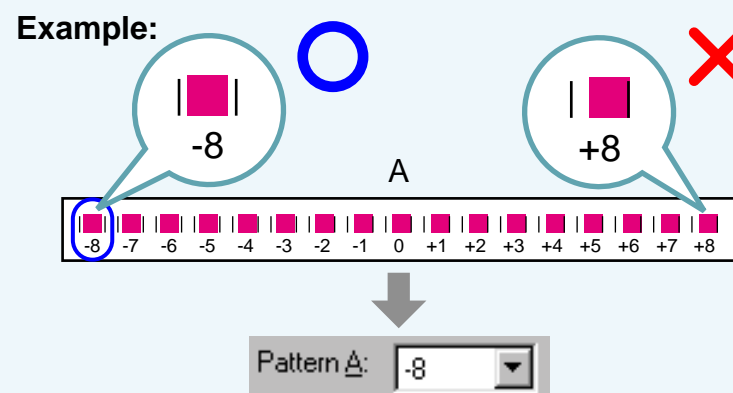


The "Align print head" dialog box will appear, and a test chart will be printed.

- 5 Check the test chart results, and change the preferences to the best setting for each pattern.



- 1 Select a pattern sample for "Pattern A".
Seventeen block figures with a vertical line on each vertical side (■) are printed in pattern A. Of the seventeen figures determine which block is most nearly centred between the vertical lines and select the corresponding number.



Contents

Index

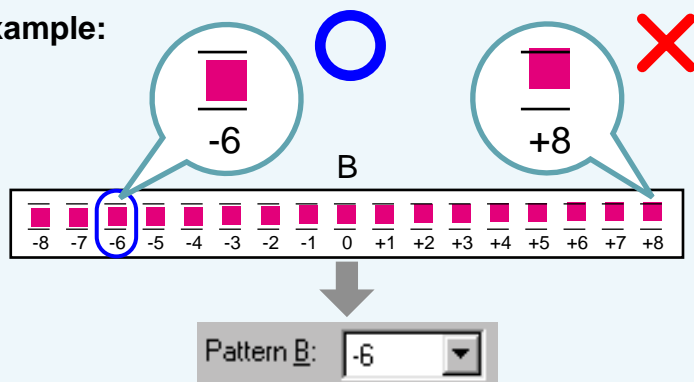
75

Aligning the Print Head (part 2)

Maintenance

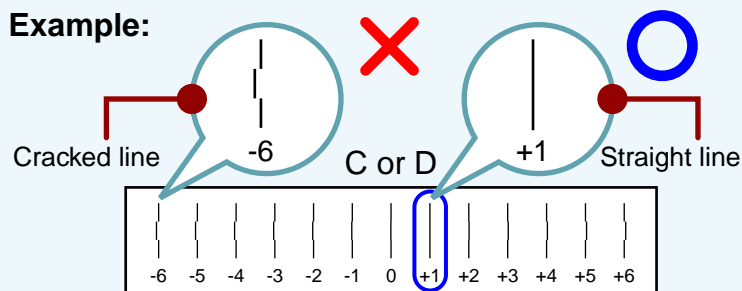
- 2 Select a pattern sample for "Pattern B".
Seventeen block figures with a horizontal line on each horizontal side (■) are printed in pattern B. Of the seventeen figures determine which block is most nearly centred between the horizontal lines and select the corresponding number.

Example:



- 3 Select pattern samples for "Pattern C" and "Pattern D" respectively.
Thirteen lines are printed in pattern C and pattern D. Of the thirteen lines determine which line is the straightest and select the corresponding number.

Example:



- 6 Click the "OK" button in the "Align print head" dialog box.

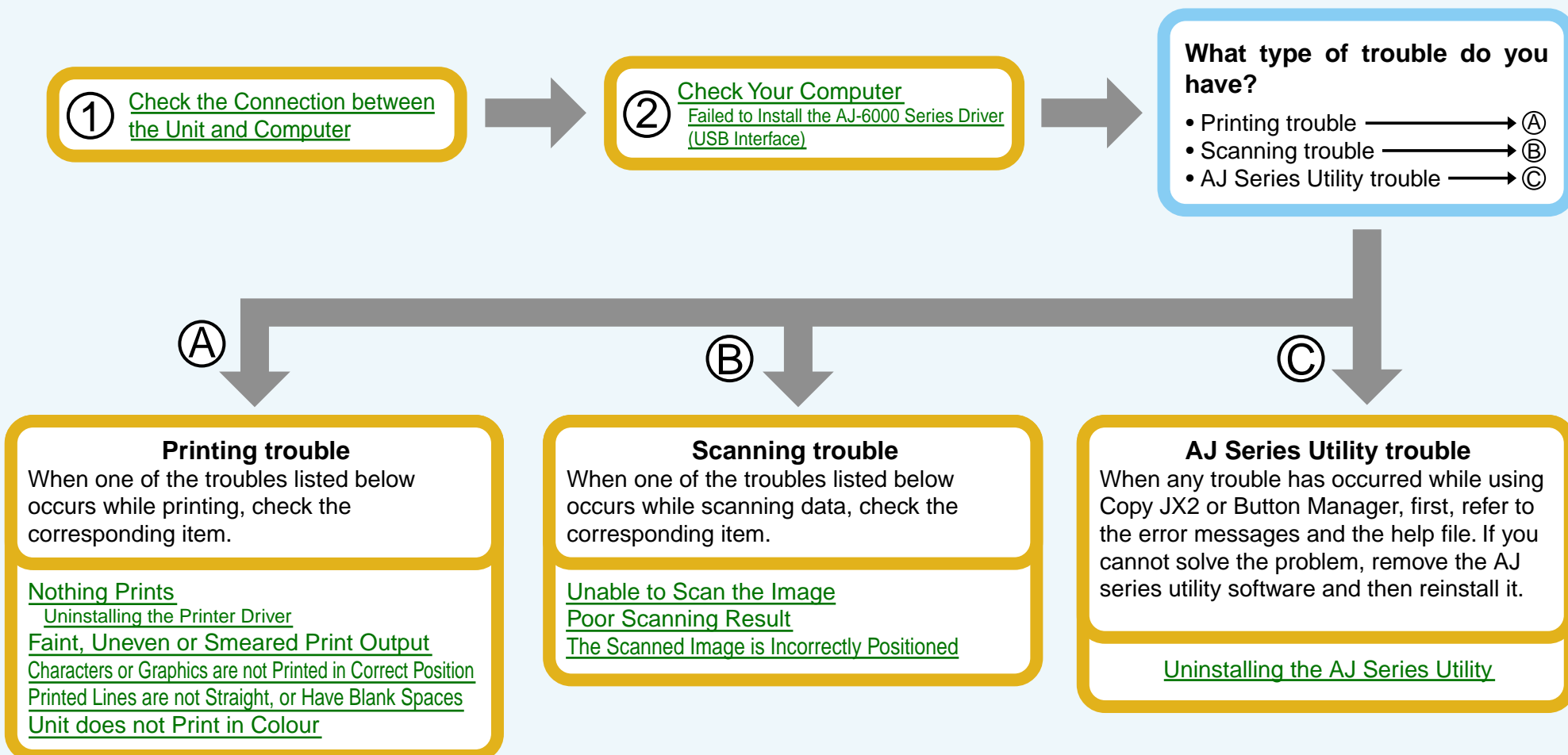
The print head will align itself.



- If you cannot find any satisfactory pattern sample for each of "Pattern A" to "Pattern D" settings, select the best ones among the printed pattern samples, and then go back to step 3.
- The unit cannot perform other operations while aligning the print head.

When any trouble has occurred in the unit, first, verify whether you can make a copy or not with the unit. Check the items shown below when the unit does not work properly but it can make a copy.

Reference: If any copier trouble occurs, refer to "TROUBLESHOOTING" in the Setup Guide and Operation Manual.



If you fail to solve the problem after verifying all the items listed above, please contact your authorised SHARP service centre.

CHECK1 Are the interface cables compatible with the unit and computer?

Interface cables compatible with this unit are USB and parallel interface cables. If you are using any other type of interface cable, please change it to the recommended cable. Check if either type of interface is supported by your computer.

CHECK2 Is the interface cable connected securely?

Check if the interface cable is securely plugged into the connectors of the unit and computer. It is also advisable to ensure that the connector pins are not bent.

Reference: See "CONNECTING THE INTERFACE CABLE" in the Setup Guide and Operation Manual for more details on interface connection.

CHECK3 Are any other USB peripherals being connected along with the unit?

If other USB peripherals are connected through the same hub, disconnect them to see if the problem still exists.

Reference: [Failed to Install the AJ-6000 Series Driver \(USB Interface\)](#)

CHECK1 Is there enough computer memory or hard disk space?

To use this unit, you must have an adequate amount of hard disk space. If there is insufficient hard disk space, delete unnecessary files to increase the free space of the hard disk. If there is insufficient memory, close unnecessary applications to increase memory available for printing or scanning. If you are still unable to print or scan, install more memory into your computer.

CHECK2 Is your hard disk fragmented?

When data is frequently stored/deleted, the hard disk may become fragmented causing a reduction in printing or scanning speed. In this case it is recommended to defragment your hard disk. You may use the Windows tools or a commercially available hard disk defragmenting tool.

CHECK3 Is the parallel port (LPT) of your computer set to "bidirectional" (when connected through the parallel port)?

Check the current port setting, referring to the operation manual of your computer. The unit does not work normally when the setting is not bidirectional.

Failed to Install the AJ-6000 Series Driver (USB Interface)

Troubleshooting

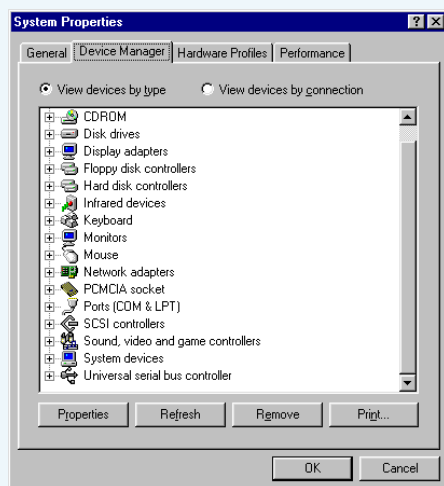
If the unit is connected to your computer by USB cable, you must install the USB driver.

If you failed to install the AJ-6000 series driver onto your computer connected to the unit by USB interface, make sure to enable the USB port referring to the steps shown below.

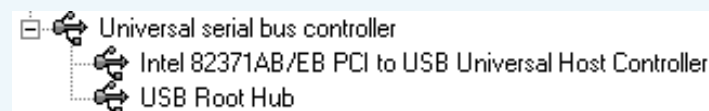
1 Click the "Start" button, select "Settings", and then click "Control Panel".

2 Double-click the "System" icon and click the "Device Manager" tab.

The last item listed in the Device Manager should be "Universal serial bus controller".



3 Click the (+) icon beside the "Universal serial bus controller".



Two items will display, your Controller chipset type and Root Hub. If these items appear, you can use USB port. If the "Universal serial bus controller" shows a yellow exclamation point or does not appear, you must check your computer manual for USB troubleshooting or contact your computer manufacturer.

4 When you make sure that the USB port is enabled, install the AJ-6000 series driver including the USB port driver, referring "INSTALLING THE SOFTWARE" in the Setup Guide and Operation Manual.

If nothing prints even when the unit is turned on, please wait a few moments. The printer needs a longer time to process multicoloured or intricate data. If the unit still does not print, refer to the check list below.

CHECK1 Is the correct print port "SPRT" selected?

Make sure that "SPRT" is selected by following the steps below.

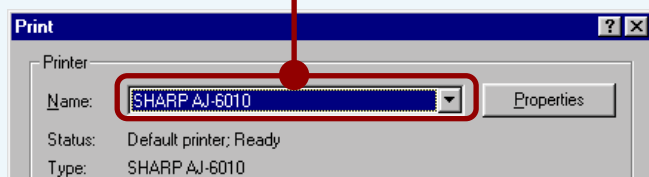
- 1 Click the "Start" button, select "Settings" and then click "Printers".
- 2 Right-click the "SHARP AJ-6010" printer driver icon, and then click "Properties".
- 3 Click the "Details" tab to check the "Print to the following port".

If "SPRT" is not selected for the "Print to the following port" setting, choose "SPRT" from the listed options. On the other hand, if "SPRT" does not appear on the option list, refer to "INSTALLING THE SOFTWARE" in the Setup Guide and Operation Manual to reinstall the AJ-6000 series driver.

CHECK2 Is your printer selected correctly in the current application for the print job?

When choosing "Print" from the "File" menu located in applications, be sure you have selected the "SHARP AJ-6010" displayed in the "Print" dialog box.

Check here



CHECK3 Has the printer driver been installed properly?

Check if the printer driver has been installed, following the steps listed below.

- 1 Click the "Start" button, select "Settings" and then click "Printers".
- 2 Check if the "SHARP AJ-6010" printer driver icon is shown in the "Printers" window.



If you still cannot print after confirming the "SHARP AJ-6010" printer driver icon, the printer driver may not have been installed correctly. In this case, you must uninstall the printer driver and install the printer driver again.

Reference: [Uninstalling the Printer Driver](#)

If you cannot print even after following the steps shown in [Nothing Prints](#), you must uninstall the printer driver and install the printer driver again.

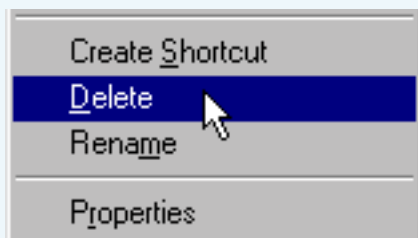
Reference: See "INSTALLING THE PRINTER DRIVER" in the Setup Guide and Operation Manual.



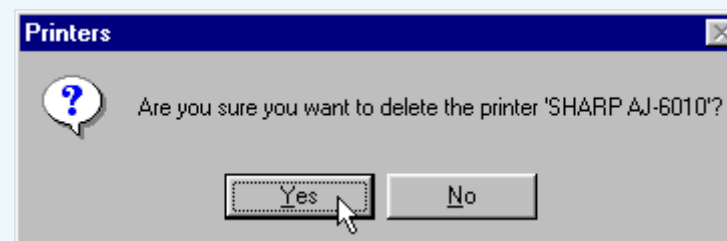
Before uninstalling the printer driver, close all applications.

1 Click the "Start" button, select "Settings", and then click "Printers".

2 Right-click the "SHARP AJ-6010" printer driver icon, and select "Delete" from the pop-up menu.



3 Click the "Yes" button in the confirmation dialog box.



You have successfully completed uninstalling the printer driver.

If the print output is faint or uneven

If print output is faint or uneven, refer to checks 1 to 3 below for possible remedies.

CHECK1 Has the paper been inserted into the printer with the print side facing the right way?

Some types of paper have only one printable side. Print quality will suffer if paper is loaded in the tray with the print side facing the wrong way.

CHECK2 Has the printer driver been specified to suit both paper and the print job?

Open the properties dialog box, and follow the steps listed below.

- 1 Is the paper specified in the properties dialog box the same as that loaded in the tray?

Click the "Advanced" tab, and check if the "Media Type" setting matches the paper inserted in the tray.

- 2 Is the print quality setting in the properties dialog box set to "Draft"?

If the "Print Quality" setting in the "Advanced" tab is set to "Draft", you can print at higher speed but print quality may suffer as a result. Specify another setting, and then print again.

CHECK3 Did you get a clear result for your test page?

Print a test page to check the print quality. To print a test page, click the "Start" button of "Test print head" on the "Maintenance" tab of the print status window.

Reference: [Test Print Head](#)

If the print output is smeared

First turn the paper knob to the (✉) direction and print again. If the print output is still smeared,

CHECK1 Is the paper curled?

If the paper is curled, straighten it up and set it to the unit again.

CHECK2 Is the paper too thick or too thin?

Only paper weighing from 60g/m² to 200g/m² (16 lbs. to 110 lbs. index) can be used for printing.

CHECK3 Did you set sufficient margins in the paper settings of your application?

If the margins are set outside of the quality guaranteed area, smudges or smears may appear at the upper and lower edges of the paper.

Set margins from your application to fit within the quality guaranteed area.

Reference: [Quality guaranteed area](#)

If a document is printed skewed or partly off the paper, follow the steps listed below.

CHECK1 Is the paper size loaded in the tray the same as that specified in the printer driver?

Click the "Paper" tab in the properties dialog box, and check if the "Paper Size" options suit the size of the paper loaded in the tray. If the "Fit To Page" setting is activated, make sure that the paper size selected from the drop-down list of the "Print xxx on:" option is the same as the size of the loaded paper.

Example "Print A4 on:" A6

CHECK2 Is the orientation of document setting correct?

Click the "Main" tab in the properties dialog box, and verify if the "Orientation" option is set to your requirements.

CHECK3 Did you correctly select the desired value for "N-Up Printing"?

Confirm the selected value for "Original Size" when "2-Up" or "4-Up" has been selected for "N-Up Printing". If you have selected a smaller paper size than the document size of your application, the image outside the printable area is not printed.

CHECK4 Is the paper loaded correctly?

If a document is physically damaged as it is output or the image is skewed on the paper discard the jammed sheet, reinsert the paper supply and print again. Insert the paper so that there is no visible space between the paper and the paper guides.

Reference: See "LOADING PAPER" in the Setup Guide and Operation Manual for more details on inserting paper.

CHECK5 Did you correctly specify the margins for the application in use?

Check the layout of the document margins and the paper size settings for the application you are using. Also check if the print settings are specified correctly to suit the paper size.

Reference: [Quality guaranteed area](#)

When printed lines are not straight, or have blank spaces, follow the steps listed below.

1 **Specify the print quality setting in the printer driver.**

Click the "Advanced" tab located in the properties dialog box, and check if the "Print Quality" option is set to "Sharp Special", "Normal" or "Best".

If you change the setting from "Draft" to any other option and printed lines are still poor, go to step 2.

[Reference: "Advanced" Tab Settings](#)

2 **Align the print head.**

Click the "Maintenance" tab of the print status window and then click "Start" button of "Print alignment patterns" to align the print head.

[Reference: Aligning the Print Head](#)

If you are unable to print a document in colour, refer to the check list below.

CHECK1 Is the printer driver set to the colour print option?

Click the "Advanced" tab in the properties dialog box, and change the "Output Type" setting to "Colour".

Reference: ["Advanced" Tab Settings](#)

CHECK2 Does the application you are using support colour printing?

Some applications may not support colour printing. Use an application that supports colour printing. For more information, see your application's manual or help file.

If you cannot scan the image, refer to the check list shown below.

CHECK1 Is your application compliant to TWAIN?

If your application is not compliant to TWAIN, the application cannot acquire images. Make sure that your application is compliant to TWAIN.

CHECK2 Have you selected the TWAIN driver of this unit on your application?

Make sure that the "SHARP TWAIN AJ1" is selected on your application.

Reference: [Starting the SHARP TWAIN driver](#)

CHECK3 Have you specified all scanning preferences appropriately?

Setting a large area with full colour together with a high resolution setting, makes the data size large, resulting in extended scanning times. It is recommended to set the scanning preferences depending on the type of original to be scanned, i.e., Text, Text/Graphics, Photograph, Colour, Black & White.

CHECK4 Is there enough computer memory?

Your computer may not have enough available memory to hold the document you want to scan. Lower the resolution rate.

CHECK5 Is the AJ-6000 series driver installed successfully?

You cannot scan with the unit when AJ-6000 series driver is not installed in your computer.

Refer to "INSTALLING THE SOFTWARE" in the Setup Guide and Operation Manual to reinstall the AJ-6000 series driver.

CHECK6 Is the "SHARP TWAIN AJ1" driver installed properly?

If you cannot scan normally even after verifying CHECK1-CHECK5, [uninstall the AJ series utility](#) and then reinstall it.

Reference: When you reinstall the AJ series utility, check the "Utility Software" option, following step 4 of "INSTALLING THE AJ-6000 SERIES SOFTWARE" in the Setup Guide and Operation Manual.

If you get poor quality as a result of scanning job, and you cannot improve the quality by changing preferences, refer to the check list shown below.

CHECK1 Is the original clean?

Check your original before scanning. If any dust sticks to the original, you cannot obtain a clean result. In addition, make sure that the original table is also clean.

CHECK2 Have you specified the suitable resolution?

Make sure that the value for the "Resolution" setting in the SHARP TWAIN driver satisfies the requirement of the set original.

Reference: ["Professional" Scan Preferences \(Main\)](#)

CHECK3 Have you specified suitable value for the "B/W Threshold" setting?

When you scan with "Mono 2 gradation" colour mode, make sure that a suitable value is specified for the "B/W Threshold" setting. A larger threshold value makes your output darker, whilst a small threshold value makes it lighter. To adjust the threshold automatically, click the "Auto Threshold" button on the "Image" tab of "Professional" screen.

Reference: ["Professional" Scan Preferences \(Image\)](#)

CHECK4 Have you adjusted the brightness and contrast suitably?

If you get output which seems to have unsuitable brightness or contrast as a result of scanning job, for example, too bright output, activate the "[Auto Contrast/Brightness Adjustment](#)" setting on the "Image" tab of the "Professional" screen. Click the "[Variation Preview Screen](#)" button to adjust the brightness and the contrast viewing the scanned output image on the screen.

The Scanned Image is Incorrectly Positioned

Troubleshooting

If the scanned image is incorrectly positioned, refer to the check list shown below.

CHECK1 Have you placed the original straight?

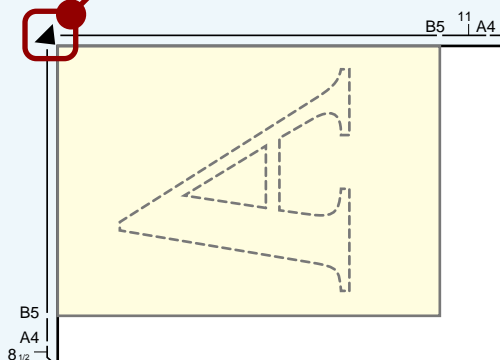
Place the original straight on the original table.

Reference: Refer to "ORIGINAL PLACEMENT" in the Setup Guide and Operation Manual for the detail on how to set the original.

CHECK2 Have you set the original correctly on the original table?

Place the original on the original table in the direction as shown in the illustration below. If you place the original upside down, the scanned image will be reversed.

Align the corner of the original with (▲) mark.



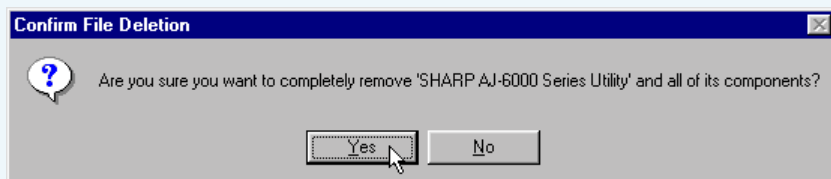
When the AJ series utility does not work normally, first, refer to error messages and the help file for each utility. If the software does not work normally even after verifying them, follow the steps shown below to uninstall the AJ series utility software and then reinstall it.



Caution

Before uninstalling the AJ series utility, close all applications.

- 1 Click the "Start" button, select "Programs", select "SHARP AJ-6000 Series", select "Utility", and then click "Deleting SHARP AJ-6000 Series Utility".
- 2 Click the "Yes" button in the confirmation dialog box.
- 3 When the uninstalling process completes, click the "OK" button.
- 4 Refer to "INSTALLING THE AJ-6000 SERIES SOFTWARE" in the Setup Guide and Operation Manual to reinstall the AJ series utility software.



The progress of removing the AJ series utility is displayed in the progress bar.

Index

"2-Up" Printing	24	M	"Main" Tab		Q	Quality	14
"4-Up" Printing	24		Printer Driver	6	R	Resolution	39
A			SHARP TWAIN Driver	39	S	Scan Setup	62
"Advanced" Tab Settings	13		Maintenance	66		Scan Size	56
Aligning the Print Head	75		"Maintenance" Tab	29		Scanning	34
Application Selection	63		Media Type	14		Scanning an Image	36
Auto head cleaning	29	N	N-Up Printing	8		Scanning Mode	37
B		O	"Options" Tab	30		Scanning Type	38
Basic Printing	20		Order	7		Setting the Scanning Area	45
Brightness	56		Orientation	7		Sharing Printer	31
Button Manager	59		Outline of the SHARP TWAIN Driver	34		Special Setting	57
Bypass	10		"Output Quality" Settings	15		"Standard" Scan Preferences	38
B/W Threshold	41	P	Paper Selection	10		Starting	
C			Paper Size	10		Printer Driver	3
Changing the Ink Tank	67		"Paper" Tab Settings	9		SHARP TWAIN Driver	35
Changing the Print Head	72		Paper tray	10	T	Test Print Head	70
Cleaning the Print Head	71		"Preference" Tab	43		Troubleshooting	77
Colour Mode			Preview		U	Uninstalling	
Button Manager	62		Copy JX2	54		AJ Series Utility	90
Copy JX2	56		Scanning	45		Printer Driver	82
Scanning	40		Print	19		Utility Software	
Copy JX2	49		Print alignment patterns	29		Button Manager	59
Custom Paper	11		Print head			Copy JX2	49
E			Alignment	75	V	Variation Preview Screen	46
Enlarge/Reduce the Printed Image	23		Changing	72	W	Watermark	17
F			Cleaning	71		"Watermark" Tab Settings	16
Fit To Paper Size	11		Print Margin Settings	55	Z	Zoom	
G			Print Quality	14		Copy JX2	56
Guaranteed area	12		Print Status Window	26		Printer Driver	11
H			Printable area	12		Scanning	39
How to Use the Online Manual	1		Printer Properties	2			
I			Printing a Photograph	25			
Image Repeat	52		Printing a Watermark	22			
"Image" Tab	41		Printing Overview	19			
Information	51		"Professional" Scan Preferences	39			
Ink tank							
Changing	67						
Indicator window	29						